Thor

PNEUMATIC TOOLS

Catalog 52-B

FOURTH EDITION

INDEPENDENT PNEUMATIC TOOL CO.

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Thor

• For more than half a century the Independent Pneumatic Tool Company has been designing and engineering tools bearing the Thor trademark for use in industry throughout the civilized countries of the world. • Since the inception of this company in 1893, each year has seen Thor engineers creating and developing new models, many of which have taken their places among the outstanding contributions of all times to the craft of tool making; a tribute to the inventive and creative genius of Thor engineers. • Today Thor engineers are still pioneering, still developing and perfecting tools to speed up industrial production; designing and building tools that are meeting every demand of modern industry; that are given acceptance in every country of the world. • In the pages that follow are illustrated tools that are worthy of your every consideration; tools bearing the trademark Thor, symbolic of power, endurance and efficiency.

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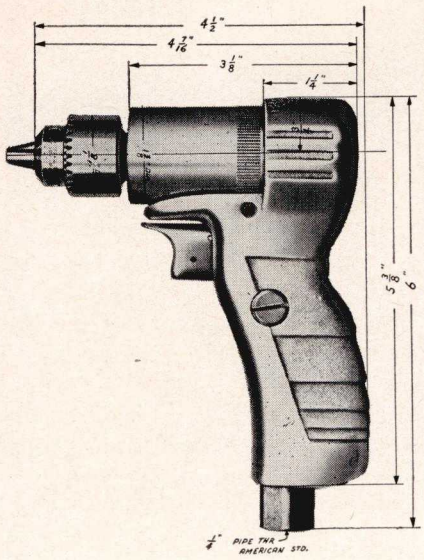
ROTARY TOOLS

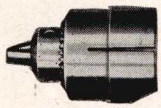
• Thor Rotary Pneumatic Tools are developments of Thor engineering, fostered by the necessity for overcoming the mechanical limitations of piston type tools. Thor Rotary tools are a mechanical advance over piston type tools, lifting speed restrictions, eliminating vibration and power waste and lowering maintenance cost. Lighter weight . . . increased power and torque . . . low air consumption . . . perfect balance . . . lack of vibration . . . governed speed . . . all are features of mechanical excellence in Thor Rotary Tools.

ROTARY AIR DRILLS

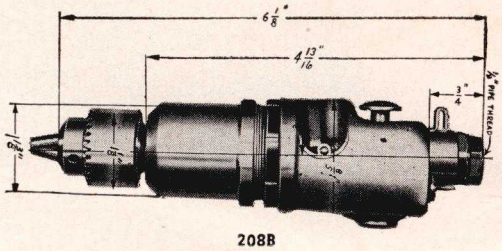
1/8"



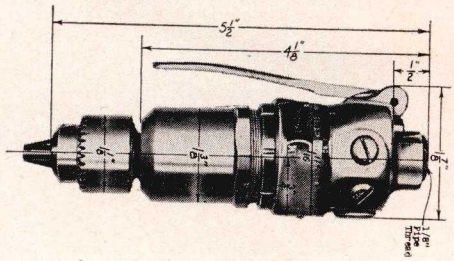
208G



71738
Chuck Protection Sleeve



208B



208L

SPECIFICATIONS

Non-Reversible

Size	Speed R.P.M.	Capacity Drilling	Weight Pounds	Length Overall	Spindle Offset	Morse Taper or Chuck	Code Word
208G	14000	1/8"	1 3/4	4 1/2"	3/4"	Chuck	AREDO
208B	14000	1/8"	1 1/2	6 1/8"	3/4"	Chuck	AREDU
208L	14000	1/8"	1 7/16	5 1/2"	3/4"	Chuck	AREDY

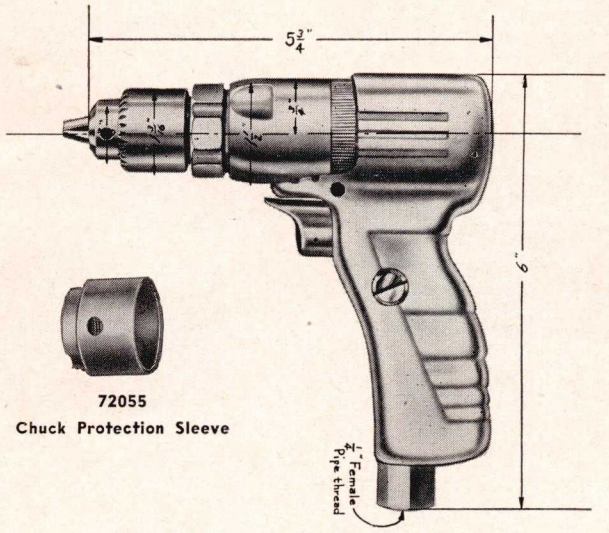
EQUIPMENT

Size	Standard Equipment	Optional Equipment
208G	Pistol Grip Throttle, Jacobs Chuck with wrench, load speed regulator.	8 ft. length 1/4" hose with hose nipples and clamps, if specified. No. 71738 Chuck Protection Sleeve, if specified.
208B	Button Throttle, Jacobs Chuck with wrench.	
208L	Lever Throttle, Jacobs Chuck with wrench, load speed regulator.	

Standard Equipment means Equipment shipped with Tool unless otherwise specified.
Optional Equipment means Equipment which can be supplied in place of Standard Equipment if so specified.

ROTARY AIR DRILLS

3/16"



72055
Chuck Protection Sleeve

209G-210G

SPECIFICATIONS

Non-Reversible

Size	Speed R.P.M.	Capacity Drilling	Weight Pounds	Length Overall	Spindle Offset	Morse Taper or Chuck	Code Word
209G	4000	3/16"	2 5/16"	5¾"	¾"	Chuck	AREFA
210G	2500	3/16"	2 5/16"	5¾"	¾"	Chuck	AREFO

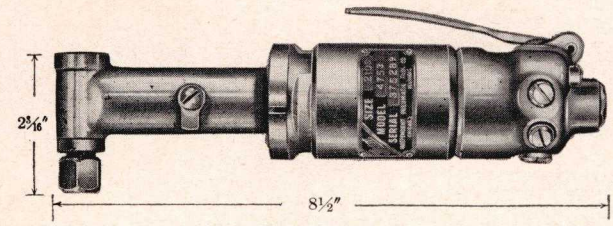
EQUIPMENT

Size	Standard Equipment	Optional Equipment
209G 210G	Pistol Grip Throttle, Jacobs Chuck with wrench, load speed regulator.	8-ft. length ¼" hose with hose nipples and clamps, if specified. No. 72055 chuck protection sleeve, if specified.

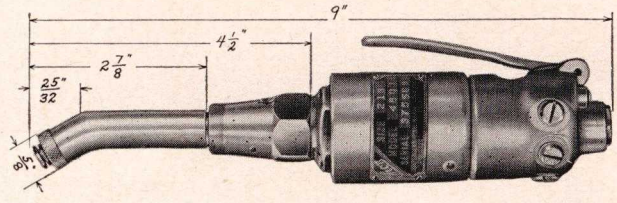
Standard Equipment means Equipment shipped with Tool unless otherwise specified.
Optional Equipment means Equipment which can be supplied in place of Standard Equipment if so specified.

ROTARY ANGLE DRILLS

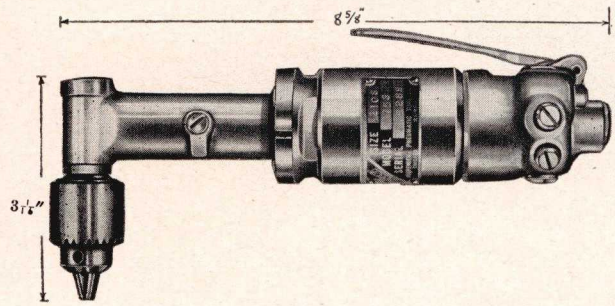
3/16" TO 1/4"



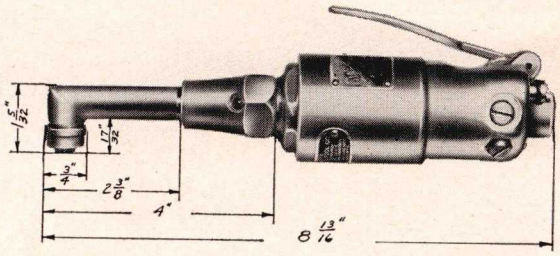
210-S (Collet)



213



210-S (Chuck)



214-S

SPECIFICATIONS

Non-Reversible

Size	Degree of Angle	Speed R.P.M.	Capacity Drilling	Weight Pounds	Collet or Chuck	Length Overall	Angle Head Length	Code Word
210-S	90	2000	3/16"	2 5/8	Chuck	8 5/8"	3 1/16"	ARAPO
210-S	90	2000	3/16"	2 7/16	Collet	8 1/2"	2 3/16"*	AREJO
213	30	2250	3/16"	1 7/8	Collet	9"	25/32"	ARATY
214-S	90	2250	3/16"	1 7/8	Collet	8 13/16"	15/32"	AREDI
211-C	90	900	3/16"	2 1/4	Chuck	8 5/16"	2 5/8"	AREJU
220-C	90	1000	1/4"	3 3/8	Chuck	9 1/16"	3"	AREJY

*Spindle Offset 31/64".

EQUIPMENT

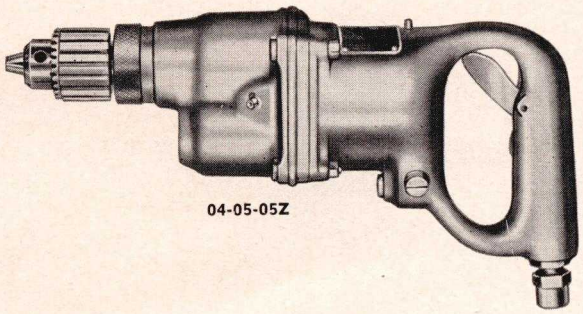
Size	Standard Equipment	Optional Equipment
210-S	306E attachment with 1/4" Collet Chuck and Drill Adaptor Sleeve for any fractional or numbered size of drill from 1/16" or No. 52 minimum up to 3/16" or No. 8 inclusive. Load Speed Regulator. Lever Throttle.	305E attachment with 3/16" Chuck. Button Throttle. 8 ft. length of 1/4" hose with hose nipples and clamps, if specified.
213, 214-S	Collet Chuck for any fractional or numbered size of drill from 1/16" or No. 52 minimum up to 3/16" inclusive. Load Speed Regulator. Lever Throttle.	1/8" Chuck. Button Throttle. 8 ft. 1/4" hose with nipples and clamps, if specified.
211-C, 220-C	Jacobs Chuck with Wrench. Load Speed Regulator. Lever Throttle.	Button Throttle. 8 ft. hose (1/4" for Size 211-C; 3/8" for Size 220-C) with nipples and clamps, if specified.

Standard Equipment means Equipment shipped with Tool unless otherwise specified.

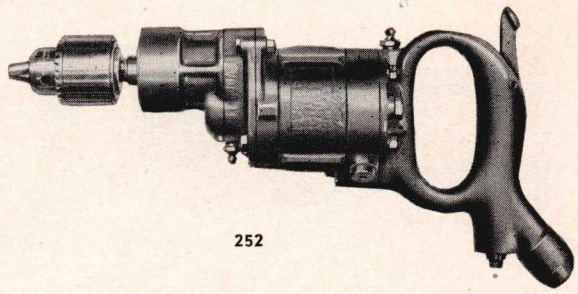
Optional Equipment means Equipment which can be supplied in place of Standard Equipment if so specified.

ROTARY AIR DRILLS

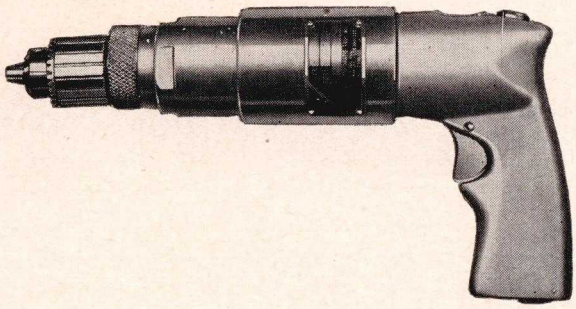
1/4" TO 3/8"



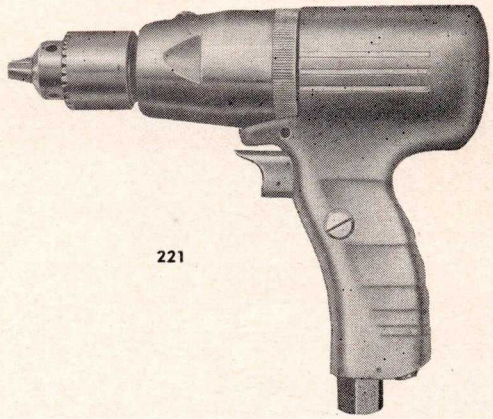
04-05-05Z



252



221-Y



221

Non-Reversible

Size	Speed R.P.M.	Capacity		Weight Pounds	Morse Taper or Chuck	Length Overall	Spindle Offset	Code Word
		Drilling	Reaming					
221	1800	1/4"	3/16"	3 7/8	Chuck	7 3/8"	1 3/32"	ARARO
221Y	1100	1/4"	3/16"	4 3/8	Chuck	10 1/4"	15/16"	AREOR
04	1800	5/16"	1/4"	5 1/4	Chuck	11 1/2"	1 3/32"	AREAV
05	1200	5/16"	1/4"	5 3/4	Chuck	11 1/2"	1 3/32"	AREAX
05Z	500	3/8"	1/4"	5 3/4	Chuck	11 1/2"	1 3/32"	ARILT
252	1400	3/8"	1/4"	8 1/2	Chuck	15 1/4"	1 1/8"	ARILK

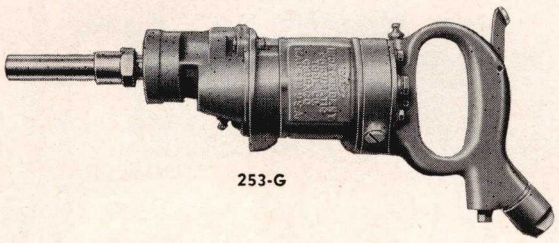
EQUIPMENT

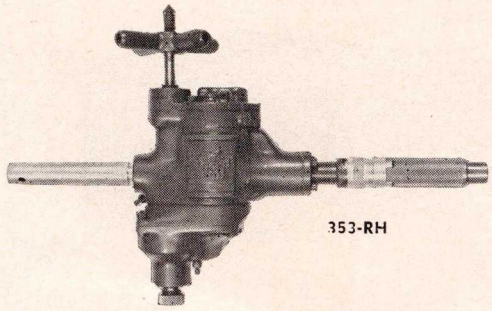
Size	Standard Equipment	Optional Equipment	Extra Equipment
04, 05, 05Z	Jacobs Chuck with Wrench. Grip Throttle.	No. 1 Morse Taper Socket.	
221, 221Y	Jacobs Chuck with Wrench. Pistol Grip Throttle. Load Speed Regulator.	No. 1 Morse Taper Socket. 8 ft. 3/8" hose with nipples and clamps, if specified.	
252	Jacobs Chuck with Wrench. Grip throttle.	No. 1 Morse Taper Socket.	Use-em-Up Taper Socket No 1 size.

Standard Equipment means Equipment shipped with Tool unless otherwise specified.
Optional Equipment means Equipment which can be supplied in place of Standard Equipment if so specified.
Extra Equipment means Equipment which is not included in price of Tool and is charged for additionally.

ROTARY AIR DRILLS

9/16"


253-G


353-RH

Non-Reversible

Size	Speed R.P.M.	Capacity			Weight Pounds	Morse Taper or Chuck	Length Overall	Spindle Offset	Code Word
		Drilling	Reaming	Tapping					
252-TZ	960	9/16"	3/8"	3/8"	10	No. 1 or 2	15 1/2"	1 1/8"	ARILZ
253-G	700	9/16"	3/8"	3/8"	10 1/2	No. 1 or 2	17 1/2"	1 1/4"	ARIDC
253-X	700	9/16"	3/8"	3/8"	13 3/4	No. 1 or 2	17"	1 1/4"	ARIWC
353-X	700	9/16"	7/16"	7/16"	13 3/4	No. 1 or 2	12 3/4"	1 5/8"	ARIBA
353-Y	550	9/16"	1/2"	1/2"	13 3/4	No. 1 or 2	12 3/4"	1 5/8"	ARIBE

Reversible

353-RH	1000	9/16"	3/8"	3/8"	17 3/4	No. 1 or 2	12 5/8"	1 5/8"	ARIBU
353-RX	700	9/16"	7/16"	7/16"	17 3/4	No. 1 or 2	12 5/8"	1 5/8"	ARIBY
353-RY	550	9/16"	1/2"	1/2"	17 3/4	No. 1 or 2	12 5/8"	1 5/8"	ARICA

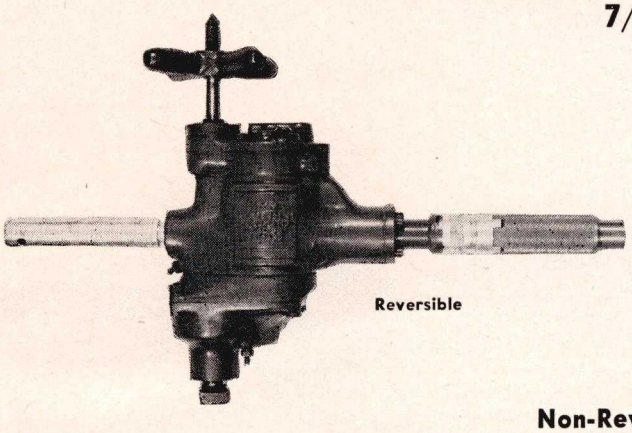
EQUIPMENT

Size	Standard Equipment	Optional Equipment	Extra Equipment
252-TZ 253-X	No. 1 Morse Taper Socket. Side Throttle, Roll Type. Feed Screw. Dead Handle.	No. 2 Morse Taper Socket or 5/8" Jacobs Chuck with Wrench for Straight Round Shank Twist Drills. Grip Handle or Breast Plate. Roll Type Self-closing Throttle. For 253-X: Lever Type Safety Throttle.	Use-Em-Up Taper Socket No. 1 or No. 2 Size.
253-G	No. 1 Morse Taper Socket. Grip Throttle.	No. 2 Morse Taper Socket or 5/8" Jacobs Chuck with Wrench for Straight Round Shank Twist Drills.	Use-Em-Up Taper Socket No. 1 or No. 2 Size.
353-X 353-Y	No. 1 Morse Taper Spindle, Side Throttle, Roll Type. Feed Screw. Dead Handle.	No. 2 Morse Taper Spindle; or with solid Spindle Threaded 5/8"x16 and No. 1 or No. 2 Morse Taper Socket (external) or 5/8" Jacobs Chuck with Wrench for Straight Round Shank Twist Drills. Grip Handle or Breast Plate. Roll Type Self-closing Throttle. Lever Type Safety Throttle.	Use-Em-Up Spindle, or Use-Em-Up Morse Taper Socket (external).
353-RH 353-RX 353-RY	No. 1 Morse Taper Spindle, Side Throttle, Roll Type. Feed Screw. Dead Handle.	No. 2 Morse Taper Spindle. Morse Taper Chuck Shank with tapered hole 5/8" Jacobs Chuck with Wrench for Straight Round Shank Twist Drills. Grip Handle or Breast Plate. Roll Type, Self-closing Throttle.	Use-Em-Up Spindle.

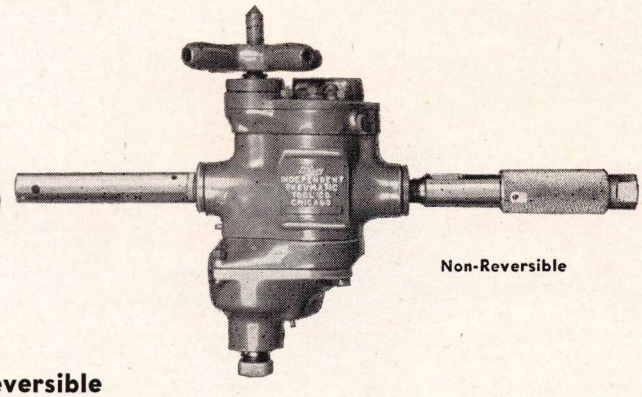
Standard Equipment means Equipment shipped with Tool unless otherwise specified.
Optional Equipment means Equipment which can be supplied in place of Standard Equipment if so specified.
Extra Equipment means Equipment which is not included in price of Tool and is charged for additionally.

ROTARY AIR DRILLS

7/8"



Reversible



Non-Reversible

Non-Reversible

Size	Speed R.P.M.	Capacity Drilling	Reaming	Tapping	Flue Rolling	Weight, Lbs. Standard	Malleable	Morse Taper	Length Overall	Spindle Offset	Code Word
253-Z	400	7/8"	1/2"	1/2"		13 3/4		No. 2	17"	1 1/4"	ACUDI
353-Z	300	7/8"	5/8"	5/8"		13 3/4		No. 2	12 3/4"	1 5/8"	ARIBI
354-Z	200	7/8"	3/4"	3/4"		16		No. 3	14"	1 9/16"	ARICU

Reversible

353-RZ	300	7/8"	5/8"	5/8"		17 3/4		No. 2	12 5/8"	1 11/16"	ARICE
354-RZ	200	7/8"	3/4"	3/4"	1 1/2"	20		No. 3	14"	1 9/16"	ARICO

EQUIPMENT

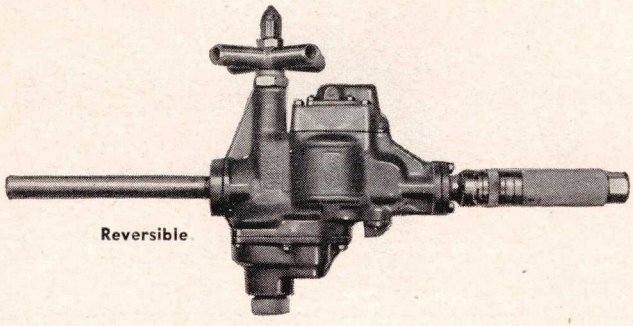
Size	Standard Equipment	Optional Equipment	Extra Equipment
253-Z	No. 2 Morse Taper Socket. Side Throttle, Roll Type. Feed Screw. Dead Handle.	No. 1 Morse Taper Socket, 5/8" Jacobs Chuck with Wrench for straight, round shank twist drills. Grip Handle or Breast Plate. Roll Type Self-closing Throttle. Lever Type Safety Throttle.	Use-Em-Up Socket, No. 2 or No. 1 Size.
353-Z	No. 2 Morse Taper Spindle. Side Throttle, Roll Type. Feed Screw. Dead Handle.	No. 1 Morse Taper Spindle; or with solid spindle threaded 5/8"x16 and No. 2 or No. 1 Morse Taper Socket (External), or 5/8" Jacobs Chuck with Wrench for straight, round shank twist drills. Grip Handle or Breast Plate. Roll Type Self-closing Throttle. Lever Type Safety Throttle.	Use-Em-Up Spindle, or Use-Em-Up Morse Taper Socket (external), No. 2 or No. 1 size. No. 49 Type Square Chuck.
354-Z	No. 3 Morse Taper Spindle. Side Throttle, Roll Type. Feed Screw. Dead Handle.	Grip Handle or Breast Plate. Roll Type Self-closing Throttle. Lever Type Safety Throttle.	Use-Em-Up Spindle. No. 49 Type Square Chuck.
353-RZ	No. 2 Morse Taper Spindle. Side Throttle, Roll Type. Feed Screw. Dead Handle.	No. 1 Morse Taper Spindle. Morse Taper Chuck Shank with tapered hole 5/8" Jacobs Chuck with Wrench for straight, round shank twist drills, Grip Handle or Breast Plate. Roll Type Self-closing Throttle.	Use-Em-Up Spindle, No. 2 or No. 1 size. No. 521 Type or Solid Type Square Chuck.
354-RZ	No. 3 Morse Taper Spindle. Side Throttle, Roll Type. Feed Screw. Dead Handle.	Grip Handle or Breast Plate. Roll Type Self-closing Throttle.	Use-Em-Up Spindle. No. 521 Type or Solid Type Square Chuck.

For No. 49 and No. 521 Type Square Chuck sizes see Page 14.

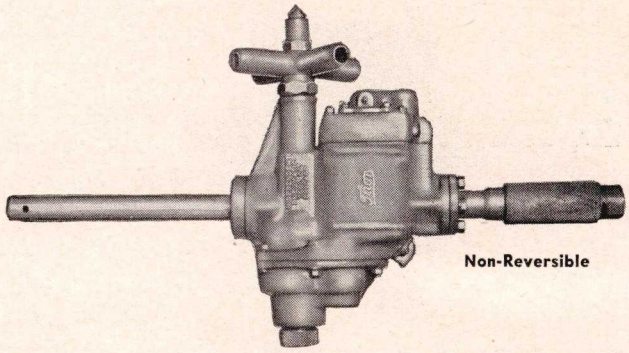
Standard Equipment means Equipment shipped with Tool unless otherwise specified.
Optional Equipment means Equipment which can be supplied in place of Standard Equipment if so specified.
Extra Equipment means Equipment which is not included in price of Tool and is charged for additionally.

ROTARY AIR DRILLS

29/32" to 1"



Reversible



Non-Reversible

Non-Reversible

Size	Speed R.P.M.	Capacity			Flue Rolling	Weight, Lbs.		Morse Taper	Length Overall	Spindle Offset	Code Word
		Drilling	Reaming	Tapping		Standard	Malleable				
362-H-2	700	29/32"	3/4"	3/4"		25 3/4	32 7/8	No. 2	14 1/4"	1 13/16"	ARAFA
362-X-2	450	29/32"	13/16"	13/16"		25 3/4	32 7/8	No. 2	14 1/4"	1 13/16"	ARAFE
362-H-3	700	1"	3/4"	3/4"		25 3/4	32 7/8	No. 3	14 3/8"	1 13/16"	ARAFI
362-X-3	450	1"	15/16"	7/8"		25 3/4	32 7/8	No. 3	14 3/8"	1 13/16"	ARAFO
362-X-4	450	1"	15/16"	7/8"		28	35 1/8	No. 4	16 1/8"	1 13/16"	ARIOD

Reversible

362-RH-2	700	29/32"	3/4"	3/4"	1 1/2"	28 1/4	38 3/8	No. 2	14 1/4"	1 13/16"	ARAJU
362-RX-2	450	29/32"	13/16"	13/16"	1 1/2"	28 1/4	38 3/8	No. 2	14 1/4"	1 13/16"	ARAJY
362-RH-3	700	1"	3/4"	3/4"	1 1/2"	28 1/4	38 3/8	No. 3	14 3/8"	1 13/16"	ARAKA
362-RX-3	450	1"	15/16"	7/8"	1 1/2"	28 1/4	38 3/8	No. 3	14 3/8"	1 13/16"	ARAKE
362-RX-4	450	1"	15/16"	7/8"	1 1/2"	30 1/2	40 5/8	No. 4	16 1/8"	1 13/16"	ARIOF

EQUIPMENT

Size	Standard Equipment	Optional Equipment	Extra Equipment
362-X-2 362-H-3 362-H-2 362-X-3 362-X-4	Feed Screw and Dead Handle. Side Throttle, Roll Type. Morse Taper Spindle as indicated in above specifications.	Grip Handle. Roll Type Self-closing Throttle. Lever Type Safety Throttle.	No. 49 Type Square Chuck, Use-Em-Up Spindle, Extension Spindle or Use-Em-Up Extension Spindle.
362-RH-2 362-RH-3 362-RX-2 362-RX-3 362-RX-4	Feed Screw and Dead Handle. Side Throttle, Roll Type. Morse Taper Spindle as indicated in above specifications.	Grip Handle. Roll Type Self-closing Throttle. Lever Type Safety Throttle.	No. 521 Type or Solid Type Square Chuck, Use-Em-Up Spindle, Extension Spindle or Use-Em-Up Extension Spindle.

For No. 49 and No. 521 Type Square Chuck sizes see Page 14.

Standard Equipment means Equipment shipped with Tool unless otherwise specified.

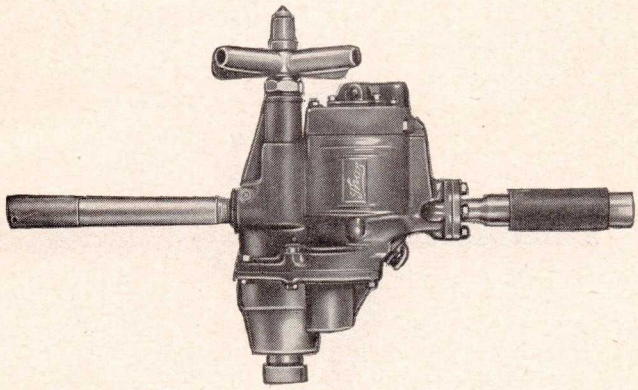
Optional Equipment means Equipment which can be supplied in place of Standard Equipment if so specified.

Extra Equipment means Equipment which is not included in price of Tool and is charged for additionally.

ROTARY AIR DRILLS

NON-REVERSIBLE

1¼"



Non-Reversible

Size	Speed R.P.M.	Capacity			Flue Rolling	Weight Lbs.		Morse Taper	Length Overall	Spindle Offset	Code Word
		Drilling	Reaming	Tapping		Standard	Malleable				
363-X-3	450	1¼"	15/16"	15/16"		25¾	32⅞	No. 3	14⅜"	1 13/16"	ARAFU
363-Y-3	350	1¼"	1"	1⅛"		25¾	32⅞	No. 3	14⅜"	1 13/16"	ARAFY
363-Z-3	250	1¼"	1"	1⅛"		25¾	32⅞	No. 3	14⅜"	1 13/16"	ARAJA
363-L-3	150	1¼"	1¼"	1⅝"		35⅞*		No. 3	16⅛"	1 13/16"	AREOS
363-X-4	450	1¼"	1"	1"		28	35⅛	No. 4	16⅛"	1 13/16"	ARAJE
363-Y-4	350	1¼"	1"	1⅛"		28	35⅛	No. 4	16⅛"	1 13/16"	ARAJI
363-Z-4	250	1¼"	1¼"	1¼"		28	35⅛	No. 4	16⅛"	1 13/16"	ARAJO
363-L-4	150	1¼"	1¼"	1⅝"		38⅜*		No. 4	17"	1 13/16"	AREOT
375-X-4	450	1¼"	1 1/16"	1 1/16"		34½	42⅛	No. 4	15½"	2"	ARARU
375-Y-4	250	1¼"	1¼"	1¼"		34½	42⅛	No. 4	15½"	2"	ARARY

*Malleable

EQUIPMENT

Size	Standard Equipment	Optional Equipment	Extra Equipment
363-L-3, 363-L-4 363-X-3, 363-X-4 363-Y-3, 363-Y-4 363-Z-3, 363-Z-4	Feed Screw and Dead handle. Side Throttle, Roll Type. Morse Taper Spindle as indicated in above specifications.	Grip handle. Roll Type Self-closing Throttle. Lever Type Safety Throttle.	No. 49 Type Square Chuck, Use-Em-Up Spindle or Extension Spindle, or Use-Em-Up Extension Spindle.

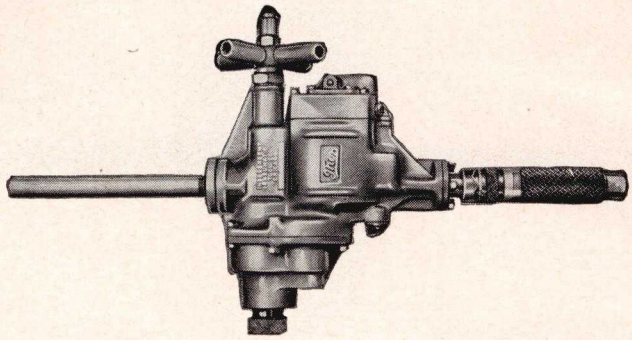
For No. 49 Type Square Chuck sizes see Page 14.

Standard Equipment means Equipment shipped with Tool unless otherwise specified.
Optional Equipment means Equipment which can be supplied in place of Standard Equipment if so specified.
Extra Equipment means Equipment which is not included in the price of Tool and is charged for additionally.

ROTARY AIR DRILLS

REVERSIBLE

1¼"



Reversible

Size	Speed R.P.M.	Capacity			Flue Rolling	Weight Lbs.		Morse Taper	Length Overall	Spindle Offset	Code Word
		Drilling	Reaming	Tapping		Standard	Malleable				
363-RX-3	450	1¼"	15/16"	15/16"	2"	28¼	38⅜	No. 3	14⅜"	1 13/16"	ARAKI
363-RY-3	350	1¼"	1"	1⅛"	2¼"	28¼	38⅜	No. 3	14⅜"	1 13/16"	ARAKO
363-RZ-3	250	1¼"	1"	1⅛"	2¼"	28¼	38⅜	No. 3	14⅜"	1 13/16"	ARAKU
363-RL-3	150	1¼"	1¼"	1⅝"	2½"	41*		No. 3	16⅛"	1 13/16"	ARAVE
363-RX-4	450	1¼"	1"	1"	2"	30½	40⅝	No. 4	16⅛"	1 13/16"	ARAKY
363-RY-4	350	1¼"	1"	1⅛"	2¼"	30½	40⅝	No. 4	16⅛"	1 13/16"	ARALA
363-RZ-4	250	1¼"	1¼"	1¼"	2¼"	30½	40⅝	No. 4	16⅛"	1 13/16"	ARALE
363-RL-4	150	1¼"	1¼"	1⅝"	2½"	43½*		No. 4	17"	1 13/16"	ARAVI
375-RX	450	1¼"	1 1/16"	1 1/16"	2½"	37¼	47⅜	No. 4	15½"	2"	ARAPY
375-RY	260	1¼"	1¼"	1¼"	3"	37¼	47⅜	No. 4	15½"	2"	ARARA

*Malleable

EQUIPMENT

Size	Standard Equipment	Optional Equipment	Extra Equipment
363-RL-3, 363-RL-4 363-RX-3, 363-RX-4 363-RY-3, 363-RY-4 363-RZ-3, 363-RZ-4 375-RX, 375-RY	Feed Screw and Dead handle. Side Throttle, Roll Type. Morse Taper Spindle as indicated in above specifications.	Grip handle. Roll Type Self-closing Throttle. Lever Type Safety Throttle.	No. 521 Type or Solid Type Square Chuck. Use-Em-Up Spindle or Extension Spindle or Use-Em-Up Extension Spindle.

Standard Equipment means Equipment shipped with Tool unless otherwise specified.

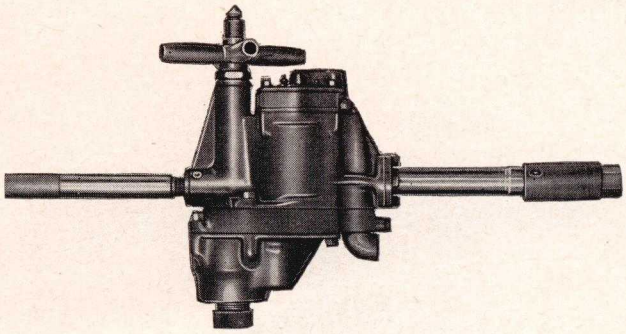
Optional Equipment means Equipment which can be supplied in place of Standard Equipment if so specified.

Extra Equipment means Equipment which is not included in price of Tool and is charged for additionally.

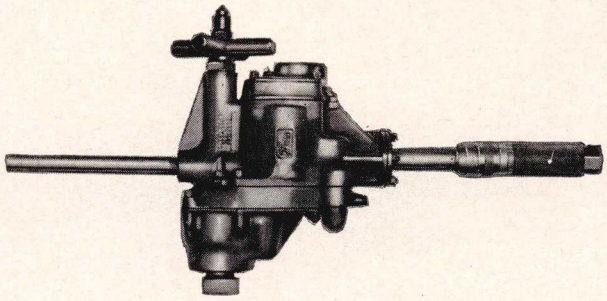
For No. 521 Type Square Chuck sizes see Page 14.

ROTARY AIR DRILLS

2" TO 3"



Non-Reversible



Reversible

Non-Reversible

Size	Speed R.P.M.	Capacity Drilling	Capacity Reaming	Capacity Tapping	Flue Rolling	Weight Lbs. Standard	Weight Lbs. Malleable	Morse Taper	Length Overall	Spindle Offset	Code Word
385-X	475	2"	1 1/2"	1 1/2"		45 1/4	58 1/4*	No. 4	17"	2 1/8"	ARIMS
385-Y	300	2"	2"	2"		45 1/4	58 1/4*	No. 4	17"	2 1/8"	ARIMT
385-Z	200	2 1/2"	2 1/2"	2 1/2"		45 1/4	58 1/4*	No. 4	17"	2 1/8"	ARIMV
385-S	125	3"	2 1/2"	2 1/2"		67	75	No. 5	22 3/4"	3 1/16"	ARAYO
385-L	75	3"	2 1/2"	2 1/2"		67	75	No. 5	22 3/4"	3 1/16"	ARAYU

Reversible

385-RX	500	2"	1 1/2"	1 1/2"	3 1/2"	50 1/2	63 1/4**	No. 4	17"	2 1/8"	ARALU
385-RY	310	2"	2"	2"	3 1/2"	50 1/2	63 1/4**	No. 4	17"	2 1/8"	ARALY
264-RY	130	2"	2"	2"	3 1/2"	39 3/4		No. 4	15 3/4"	2 1/8"	ARXEG
264-RZ	85	2"	2"	2"	4"	39 3/4		No. 4	15 3/4"	2 1/8"	ARXEH
385-RZ	200	2 1/2"	2 1/2"	2 1/2"	4"	50 1/2	63 1/4**	No. 4	17"	2 1/8"	ARIMW
385-RS	125	3"	2 1/2"	2 1/2"	5"	71	79	No. 5	22 3/4"	3 1/16"	ARAYA
385-RL	75	3"	2 1/2"	2 1/2"	5"	71	79	No. 5	22 3/4"	3 1/16"	ARAYE

*With Dowmetal Frame Weight 54 1/8 lbs. **With Dowmetal Frame Weight 59 1/8 lbs.

EQUIPMENT

Size	Standard Equipment	Optional Equipment	Extra Equipment
385-L, 385-S, 385-X, 385-Y, 385-Z	Feed Screw. Dead handle. Side Throttle, Roll Type. Morse Taper Spindle as indicated in above specifications.	Grip handle. Roll Type Self-closing Throttle. Lever Type Safety Throttle.	No. 49 Type Square Chuck. Use-Em-Up Spindle or Extension Spindle or Use-Em-Up Extension Spindles.
264-RY, 264-RZ, 385-RL, 385-RS, 385-RX, 385-RY, 385-RZ	Feed Screw. Dead handle. Side Throttle, Roll Type. Morse Taper Spindle as indicated in above specifications.	Grip handle. Roll Type Self-closing Throttle. Lever Type Safety Throttle for all sizes except 264-RY, 264-RZ.	No. 521 Type or Solid Type Square Chuck. Use-Em-Up Spindle or Extension Spindle, or Use-Em-Up Extension Spindles.

For No. 49 and No. 521 Type Square Chuck sizes see Page 14.

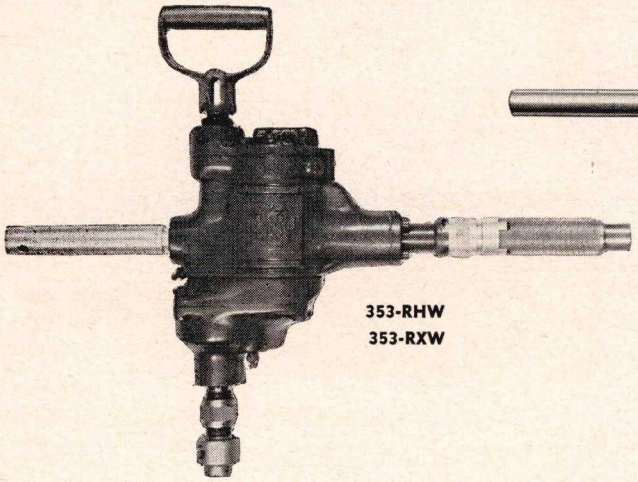
Standard Equipment means Equipment shipped with Tool unless otherwise specified.

Optional Equipment means Equipment which can be supplied in place of Standard Equipment if so specified.

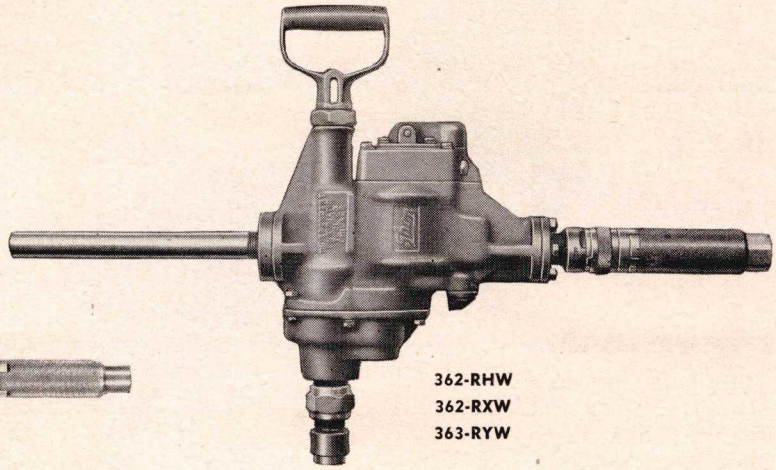
Extra Equipment means Equipment which is not included in price of Tool and is charged for additionally.

ROTARY WOOD BORING MACHINES

1" TO 4"



353-RHW
353-RXW



362-RHW
362-RXW
363-RYW

Reversible

Size	Speed R.P.M.	Wood Bore Capacity	Weight Lbs.	Chuck	Morse Taper	Length Overall	Spindle Offset	Code Word
353-RHW	1000	1"	17¾	W.B.Chuck	No. 2	16¾"	1⅝"	AREAR
353-RXW	700	1"	17¾	W.B.Chuck	No. 2	16¾"	1⅝"	AREAS
362-RHW	700	2"	27½	W.B.Chuck	No. 2	17⅜"	1 13/16"	ARAMA
362-RXW	450	2"	27½	W.B.Chuck	No. 2	17⅜"	1 13/16"	ARAME
363-RYW	350	4"	28	W.B.Chuck	No. 3	17⅜"	1 13/16"	ARAMI

EQUIPMENT

Size	Standard Equipment	Optional Equipment
353-RHW 353-RXW 362-RHW 362-RXW 363-RYW	Wood Boring Chuck for ½" diameter, Straight Round Shank Wood bits. Chuck Wrench. Grip handle. Dead handle. Side Throttle, Roll Type.	Breast Plate. Roll Type Self-closing Throttle. Lever Type Safety Throttle for all sizes except 353-RHW, 353-RXW.

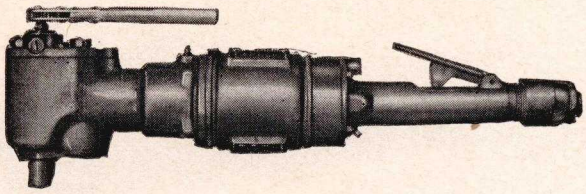
Standard Equipment means Equipment shipped with Tool unless otherwise specified.

Optional Equipment means Equipment which can be supplied in place of Standard Equipment if so specified.

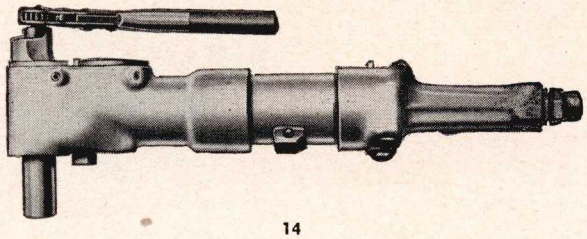
CLOSE CORNER DRILLS

ROTARY AND PISTON TYPE

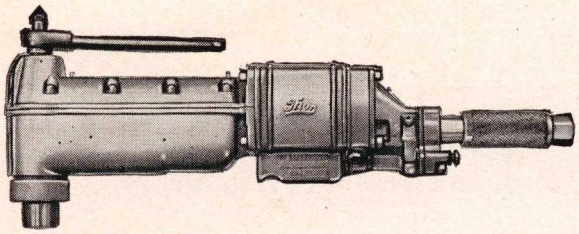
1/2" TO 2"



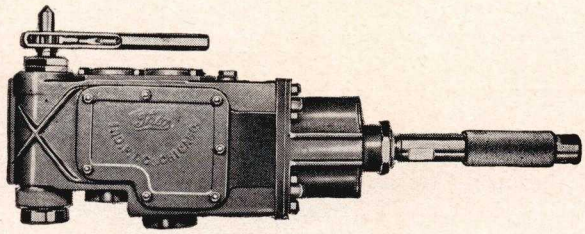
L-257



14



377-RY



8 and 9-S

NON-REVERSIBLE—ROTARY TYPE

Size	Speed R.P.M.	Capacity			Weight Pounds	Morse Taper	Length Overall	Length of Spindle	Spindle Offset	Code Word
		Drilling	Reaming	Tapping						
14-NC	450	1/2"	3/8"	3/8"	7 1/8	Chuck	14 13/32"	4 13/16"	29/32"	AREGY
14	450	9/16"	3/8"	3/8"	6 7/8	No. 1	14 1/4"	5 7/16"	3/4"	ARILJ
L-257	320	29/32"	7/8"	7/8"	14 1/8	No. 2	19 1/2"	5 7/8"	1 1/4"	ARILO
L-257-3	320	29/32"	7/8"	7/8"	14 5/8	No. 3	19 1/2"	6 1/8"	1 1/4"	ARIMU
277	400	1 1/4"	1 1/4"	1 1/4"	39	No. 3	28 1/2"	9"	1 7/8"	ARILH
377-Y	150	2"	2"	2"	47	No. 4	27"	10"	1 1/2"	ARATI
377-Z-5	100	Heavy	Heavy	Heavy	52 1/2	No. 5	27 1/4"	11 1/2"	2"	ARECX

REVERSIBLE—ROTARY TYPE

377-RY	150	2"	2"	2"	49	No. 4	27"	10"	1 1/2"	ARATO
377-RZ-5	100	Heavy	Heavy	Heavy	54 1/2	No. 5	27 1/4"	11 1/2"	2"	ARECY

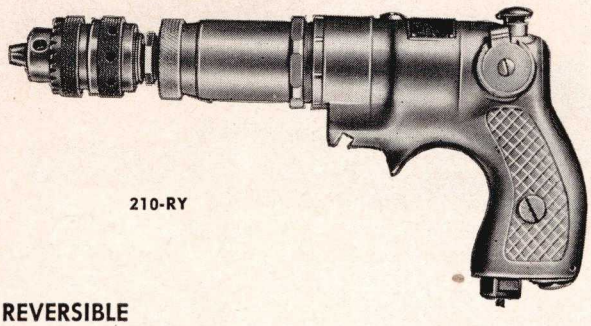
NON-REVERSIBLE—PISTON TYPE

8	220	1 1/4"	1 1/4"	1 1/4"	37 3/4	No. 3	23 3/4"	8 1/2"	15/32"	ACATE
9-S	140	2"	2"	2"	42 1/2	No. 4	24 3/8"	9 1/2"	19/32"	ACSET

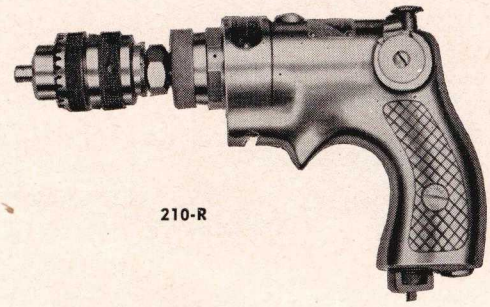
EQUIPMENT—No. 14-NC equipped with Straight Throttle and 1/2-inch capacity Jacobs Chuck with Wrench. No. 14 is equipped with Feed Screw, Ratchet Wrench and Straight Throttle. No. L-257 and L-257-3 are equipped with Feed Screw, Ratchet Wrench and Lever Throttle. Nos. 8, 9-S, 277, 377-Y, 377-Z, 377-RY and 377-RZ are equipped with Feed Screw, Ratchet Wrench and Roll Throttle. No. 521 Type Square Chuck can be furnished on all sizes except 14-NC and 14, or Use-Em-Up Spindle on all sizes except 14-NC, at extra charge. For No. 521 Type Square Chuck sizes see Page 14.

ROTARY TAPPING MACHINES

1/4"



210-RY



210-R

REVERSIBLE

Size	Speed R.P.M.	Tapping Capacity	Weight Pounds	Type of Spindle	Length Overall	Spindle Offset	Code Word
210-R	2300	Retapping to 1/4"	3 1/8	Tapered for Chuck	8 3/8"	7/8"	ARALO
210-RY	750	1/4"	3 7/8	Tapered for Chuck	10 1/4"	7/8"	ARAVO

EQUIPMENT: No. 210-R, 210-RY:—Jacobs Tapping Chuck. Push Button Reversing Valve. Load Speed Regulator. Optional: 8 ft. of 3/8" Hose complete with Nipple and Clamps, if specified.

NO. 49 TYPE CHUCKS

For Thor Rotary Pneumatic Drills

Spindle Morse Taper No.	For Rotary Drill Size	49 Type Chuck No.	Minimum and Maximum Size of Square Hole *	Chuck Shank Morse Taper No.
2	353Z	70770	5/16" Minimum 1 1/16" Maximum	2
	362H-2 362X-2	66572		
3	354Z 362H-3 362X-3 363X-3 363Y-3 363Z-3	66572		3
4	363X-4 363Y-4 363Z-4 375X-4 377Y	66603		4
	385X 385Y 385Z	66571	3/4" Minimum 1 3/8" Maximum	
5	377Z-5 385L 385S	70776		

NO. 521 TYPE CHUCKS

For Thor Rotary Pneumatic Drills

For Rotary Drill Size	521 Type Chuck Complete Including Chuck Socket No.	Chuck Retainer Nut Part No. **	Chuck Body Assembled with Key only Part No.	Chuck Socket Part No. and Minimum and Maximum Size of Square Hole *	Chuck Socket Retainer Part No.
L257 353RZ	70780	70779	70782	66589 5/16" Minimum 1 1/16" Maximum	66588
362RH-2 362RX-2	66639	58456			
L257-3 354RZ 362RH-3 362RX-3 363RL-3 363RX-3 363RY-3 363RZ-3	66638	66637	70783		
264RY 264RZ	70781	66591	70787	70158 3/4" Minimum 1 3/8" Maximum	70778
363RL-4 363RX-4 363RY-4 363RZ-4 375RX 375RY 377RY	66590	66587			
385RX 385RY 385RZ	70781	66591			
377RZ-5 385RL 385RS	70155	70156	70786		

**Chuck Retainer Nut not used with Sizes L257 and L257-3 Drills.

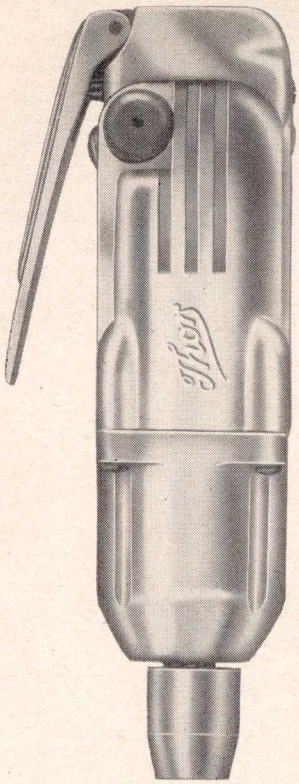
*All above Chucks can be furnished with any size hole from minimum up to maximum square size listed in 16th inch steps. Specify size of hole desired when ordering Chucks. Specify size of square when ordering Chuck Sockets.

IMPACT WRENCHES SCREW DRIVERS NUT SETTERS

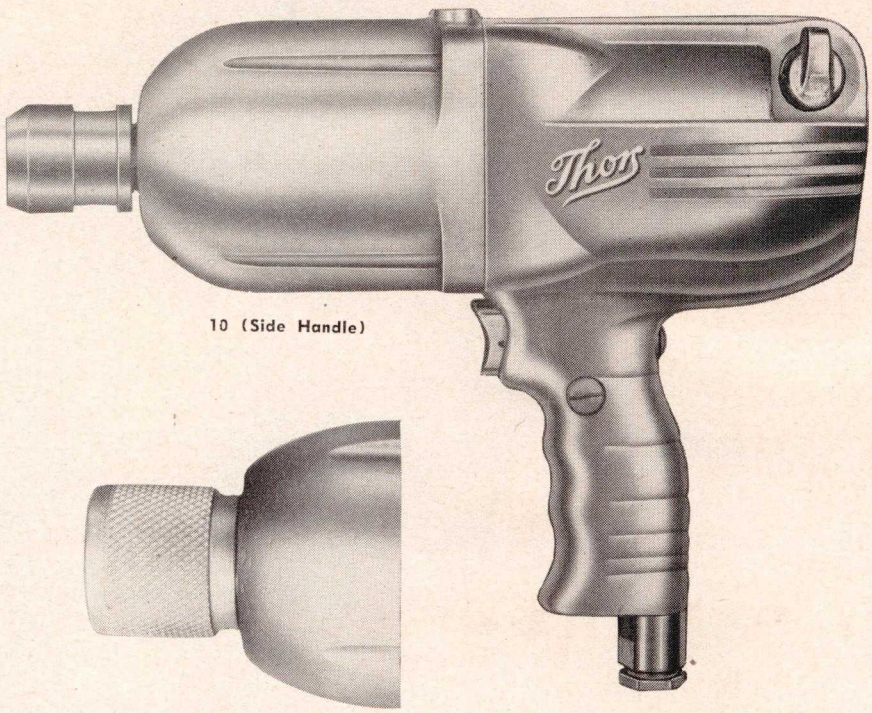
• The first mechanical screw driver was the answer of THOR engineers to the challenging problem of driving screws and nuts evenly with uniform tension. Ever since, this development of driving screws and nuts quickly and economically has been one of THOR'S engineering specialties. Constant perfection, throughout the years, has made the THOR line so complete that there has never been a screw or nut driving problem for which THOR engineers have not found the solution.

ROTARY IMPACT WRENCHES

Reversible



6L (Lever Throttle)



10 (Side Handle)

Quick Change Chuck Integral with Spindle.
(Furnished with "S" series wrenches.)

SPECIFICATIONS AND EQUIPMENT

(continued on opposite page)

Size	Capacity Bolt Diameter Inches	Type Throttle Handle	Weight Pounds	Length Overall Inches	Spindle Offset Inches	Spindle Square Inches	Quick Change Chuck Integral With Spindle	Torque and Speed Regulator
4	1/4	Side	2 5/8	5 5/16	29/32	3/8*		Standard
4S	1/4	Side	3	6 1/4	29/32		1/4" Hexagon-Std. 7/16" Hexagon-Opt.	Standard
4L	1/4	Lever	2 5/16	6 1/8	29/32	3/8*		Standard
4LS	1/4	Lever	2 11/16	7 1/16	29/32		1/4" Hexagon-Std. 7/16" Hexagon-Opt.	Standard
6	3/8	Side	4 3/8	6 1/16	1 1/16	1/2		Standard
6S	3/8	Side	4 1/2	7 1/8	1 1/16		7/16" Hexagon	Standard
6L	3/8	Lever	4 1/8	7	1 1/16	1/2		Standard
6LS	3/8	Lever	4 1/4	8 1/16	1 1/16		7/16" Hexagon	Standard
10	5/8	Side	10 3/8	8 1/4	1 1/2	5/8 Std. 1/2 Opt.		Standard
10S	5/8	Side	10 9/16	9 7/16	1 1/2		5/8" Hexagon	Standard
10G	5/8	Grip‡	10 3/4	11 1/2	1 1/2	5/8 Std. 1/2 Opt.		Standard
10GS	5/8	Grip‡	10 15/16	12 3/4	1 1/2		5/8" Hexagon	Standard
12	3/4	Side	14 15/16	9 3/16	1 11/16	†3/4 Std. 5/8 Opt. 1 Opt.		Standard
12S	3/4	Side	15 1/8	10 3/8	1 11/16		5/8" Hexagon	Standard
12G	3/4	Grip‡	15 5/16	12 1/2	1 11/16	†3/4 Std. 5/8 Opt. 1 Opt.		Standard
12GS	3/4	Grip‡	15 1/2	13 11/16	1 11/16		5/8" Hexagon	Standard
20	1 1/4	Grip‡	33 1/2	16 3/8	2 7/16	†1		

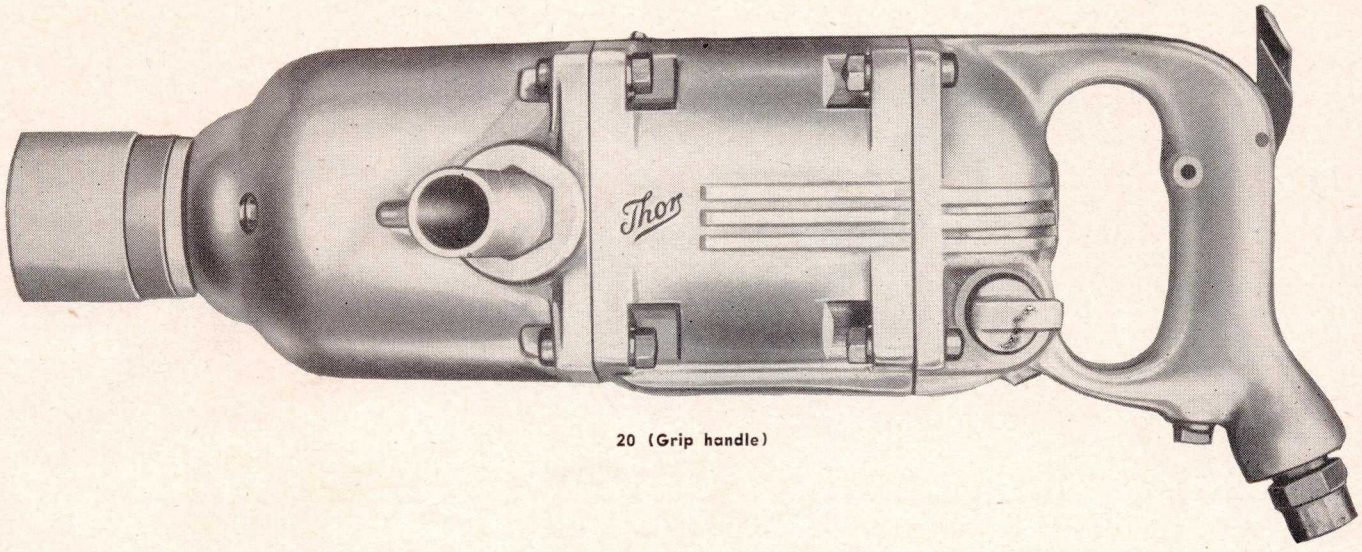
‡ Outside Trigger Standard; Inside Trigger Optional and furnished if specified.

†With Sizes 12, 12G, 20: One Socket Pin is included as equipment with machine.

*Adaptor to convert 3/8" square spindle drive to 9/32" square drive or 1/4" square drive, as specified, optional.

ROTARY IMPACT WRENCHES

Reversible



20 (Grip handle)

SPECIFICATIONS AND EQUIPMENT

(continued from opposite page)

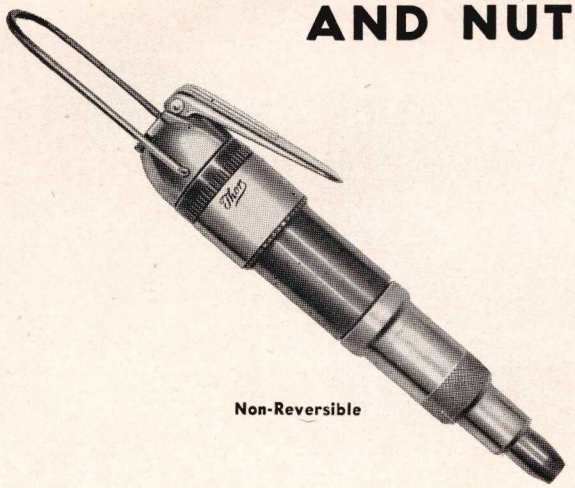
Size	OPTIONAL EQUIPMENT IN PLACE OF STANDARD EQUIPMENT: Quick Change Chuck Adaptor Hex.	Quick Change Chuck Adaptor Sq. Dr.	Extension Spindle (Length Over Standard) Inches	Dead Handle	Suspension Eyelet: Vertical	Suspension Eyelet: Horizontal	Hose Size Inches	Hose Inlet Pipe Thread Inches	8 Ft. Hose With Fittings	Impact Spindle Housing: Malleable	Impact Spindle Housing: Aluminum	Code Word
4	1/4"	3/8"	3—(3/8" Sq. Dr.)	.....	.....	.....	5/16	1/4	**	Optional	Standard	ARIPA
	7/16"	3/8"										
4S				.....	.....	.....	5/16	1/4	**	Standard	.....	ARIPB
4L	1/4"	3/8"	3—(3/8" Sq. Dr.)	.....	.....	.....	5/16	1/4	**	Optional	Standard	ARIPC
	7/16"	3/8"										
4LS				.....	.....	.....	5/16	1/4	**	Standard	.....	ARIPD
6	7/16"	1/2"	3 or 6	.....	.....	.....	5/16	1/4	**	Standard	.....	ARIOB
6S				.....	.....	.....	5/16	1/4	**	Standard	.....	ARIPE
6L	7/16"	1/2"	3 or 6	.....	.....	.....	5/16	1/4	**	Standard	.....	ARIOC
6LS				.....	.....	.....	5/16	1/4	**	Standard	.....	ARIPF
	7/16"	5/8"	3, 6 or 8 for									
10	5/8"	5/8"	either 5/8" or 1/2"	.....	Standard	Optional	3/8	1/4	**	Standard	.....	ARIPG
	7/16"	1/2"	Sq. Dr.									
10S				.....	Standard	Optional	3/8	1/4	**	Standard	.....	ARIPH
	7/16"	5/8"	3, 6 or 8 for									
10G	5/8"	5/8"	either 5/8" or 1/2"	Standard	.....	Standard	3/8	1/4	**	Standard	.....	ARIPI
	7/16"	1/2"	Sq. Dr.									
10GS				Standard	.....	Standard	3/8	1/4	**	Standard	.....	ARIPJ
	5/8"	3/4"	3, 6 or 8 for									
12	5/8"	5/8"	either 3/4" or 1"	.....	Standard	Optional	3/8	1/4	....	Standard	.....	ARIPK
	5/8"	1"	Sq. Dr.									
	7/16"	3/4"										
12S				.....	Standard	Optional	3/8	1/4	....	Standard	.....	ARIPL
	5/8"	3/4"	3, 6 or 8 for									
12G	5/8"	5/8"	either 3/4" or 1"	Standard	.....	Standard	3/8	1/4	....	Standard	.....	ARIPM
	5/8"	1"	Sq. Dr.									
	7/16"	3/4"										
12GS				Standard	.....	Standard	3/8	1/4	....	Standard	.....	ARIPO
20				Standard	.....	Standard	3/4	1/2	....	Optional	Standard	ARIOV

**Furnished only when specified.

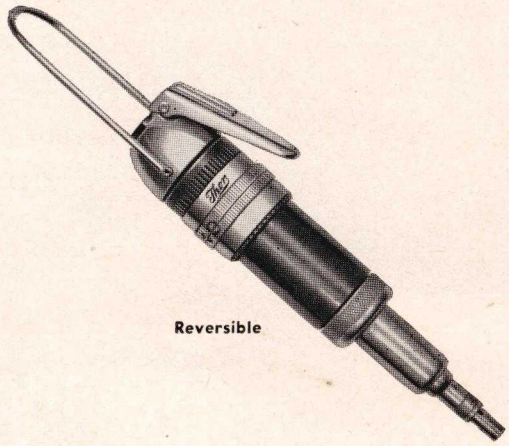
Standard Equipment means Equipment shipped with Tool unless otherwise specified.

Optional Equipment means Equipment which can be supplied in place of Standard Equipment if so specified.

ROTARY SCREW DRIVERS AND NUT SETTERS



Non-Reversible



Reversible

Non-Reversible

Size	Type Throttle	Speed R.P.M.	Capacity: Wood Screw No.	Capacity: Machine Screw No.	Capacity: Self-Tapping Screw No.	Capacity: Nut No.	Weight Lbs. — Oz.	Length Overall	Spindle Offset
125	Lever	2400	0-4	0-4	4	....	1 5 1/4	7 5/8"	3/8"
126	Lever	2000	0-4	0-4	4	....	1 5 1/4	7 5/8"	3/8"
127	Lever	1000	0-4	0-4	4	....	1 5 1/4	7 5/8"	3/8"
128	Lever	750	0-4	0-4	4	....	1 5 1/4	7 5/8"	3/8"
120	Lever	2400	2-8	2-8	4	8	1 8 1/2	8"	17/32"
121	Lever	2000	2-8	2-8	5	8	1 8 1/2	8"	17/32"
122	Lever	1000	2-8	2-8	6	8	1 8 1/2	8"	17/32"
123	Lever	750	2-8	2-8	6	8	1 8 1/2	8"	17/32"

Reversible

Size	Type Throttle	Speed R.P.M.	Capacity: Wood Screw No.	Capacity: Machine Screw No.	Capacity: Self-Tapping Screw No.	Capacity: Nut No.	Weight Lbs. — Oz.	Length Overall	Spindle Offset
125R	Lever	2400	0-4	0-4	4	....	1 5 1/2	7 5/8"	3/8"
126R	Lever	2000	0-4	0-4	4	....	1 5 1/2	7 5/8"	3/8"
127R	Lever	1000	0-4	0-4	4	....	1 5 1/2	7 5/8"	3/8"
128R	Lever	750	0-4	0-4	4	....	1 5 1/2	7 5/8"	3/8"
120R	Lever	2400	2-8	2-8	4	8	1 8 3/4	8"	17/32"
121R	Lever	2000	2-8	2-8	5	8	1 8 3/4	8"	17/32"
122R	Lever	1000	2-8	2-8	6	8	1 8 3/4	8"	17/32"
123R	Lever	750	2-8	2-8	6	8	1 8 3/4	8"	17/32"

EQUIPMENT

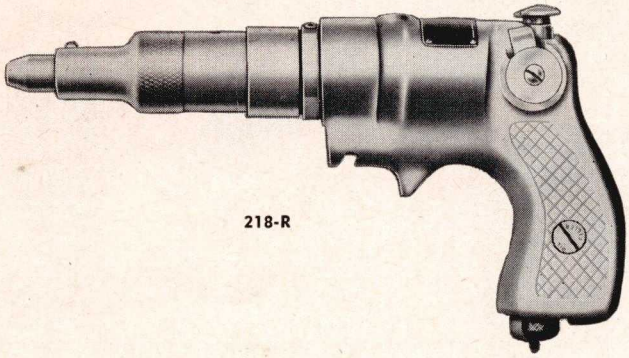
Size	Standard Equipment	Optional Equipment
120, 120R, 121, 121R, 122, 122R, 123, 123R	No. 495 Double Slip Clutch Attachment with Finder and three 1/4" Hexagon Bits.*	One Socket Wrench Shank, 1/4", 9/32" or 3/8" square drive and one standard Socket Wrench. 8 ft. length Hose complete with hose nipples and clamps, if specified.
125, 125R, 126, 126R, 127, 127R, 128, 128R	No. 496 Double Slip Clutch Attachment with Finder and three 5/32" Hexagon Bits.	8 ft. length Hose complete with hose nipples and clamps, if specified.

*Extension Bits, Finders, Pix-Up Finders, Bit and Finder Assemblies available at extra charge.

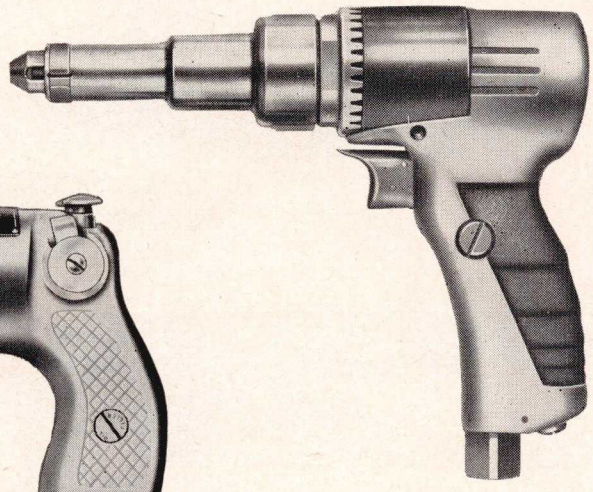
Specify Size of Screw and whether Round or Flat Head or Size of Nut, whether Hexagon or Square, and Give Distance Across Flats.

ROTARY SCREW DRIVERS AND NUT SETTERS

415



218-R



418

Non-Reversible

Size	Type Throttle	Speed R.P.M.	Capacity	Weight Pounds	Length Overall	Spindle Offset	Code Word
415	Lever	2000	No. 8 Wood or Machine Screw or 3/16" Nut.	2 1/16	7 1/2"	13/16"	ARIPS
416	Pistol	2000		2 1/8	6 1/4"	13/16"	ARIPT
417	Lever	2000		2 3/16	8 3/4"	13/16"	ARIPU
418	Pistol	2000		2 1/4	7 1/2"	13/16"	ARIPV

All above sizes available in 1100 R.P.M. When ordering, add letter "Y" to size number. (Example—415Y)

Reversible

216R	Pistol	2300	No. 8 Wood or Machine Screw or 3/16" Nut.	3 1/4	10 1/16"	7/8"	ARALI
218R	Pistol	2300		3 1/4	10 1/16"	7/8"	ARAMO
216RY	Pistol	750		4	11 15/16"	7/8"	ARECS
218RY	Pistol	750		4	11 15/16"	7/8"	ARECT

EQUIPMENT

Size	
415† 416	No. 475 Positive Clutch Attachment with Stationary Finder and three 1/4" Hexagon Bits.* Load Speed Regulator. Optional: 8 ft. length of 1/4" Hose, complete with Hose Nipples and Clamps, if specified.
417† 418	No. 474 Slip Clutch Attachment with Stationary Finder and three 1/4" Hexagon Bits.* Load Speed Regulator. Optional: 8 ft. length of 1/4" Hose, complete with Hose Nipples and Clamps, if specified.
216R 216RY	No. 480 Positive Clutch Attachment with Stationary Finder and three 1/4" Hexagon Bits.* Load Speed Regulator. Optional: 8 ft. length of 3/8" Hose, complete with Hose Nipples and Clamps, if specified.
218R 218RY	No. 473 Slip Clutch Attachment with Stationary Finder and three 1/4" Hexagon Bits.* Load Speed Regulator. Optional: 8 ft. length of 3/8" Hose, complete with Hose Nipples and Clamps, if specified.

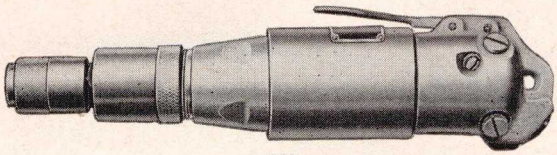
(* or with socket shank and one standard socket wrench).

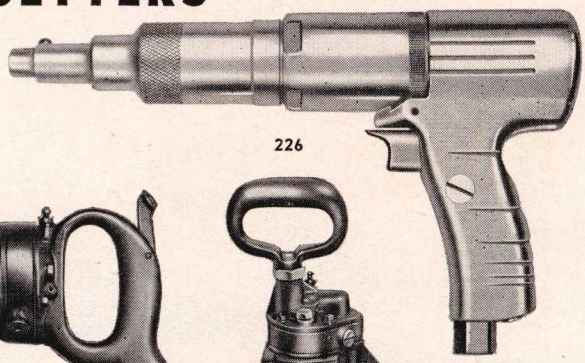
†Nos. 415 and 417: Suspension bail is standard, or if specified for portable use, swivel hose connector is furnished to prevent kinking of air hose.

Optional Attachments: For Sizes 216R, 216RY —No. 348; For Sizes 218R, 218RY—No. 257.

Specify Size of Screw and whether Round or Flat Head or Size of Nut, whether Hexagon or Square, and Give Distance Across Flats.

ROTARY SCREW DRIVERS AND NUT SETTERS


222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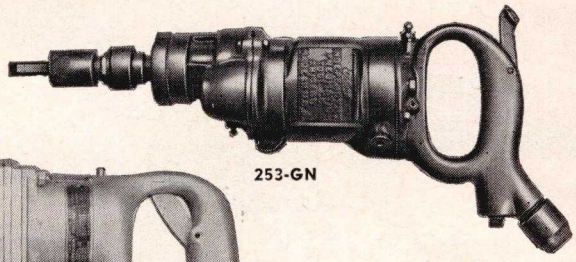
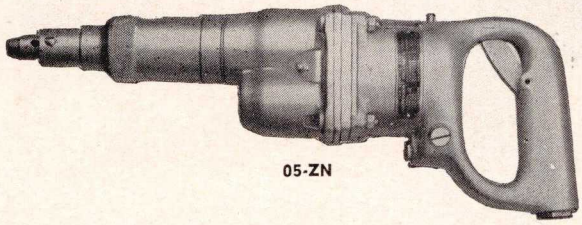
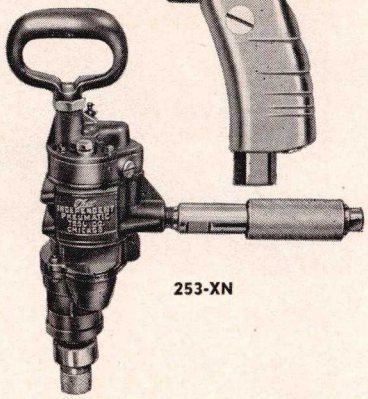

253-GN


05-ZN


253-XN

Size	Type Throttle	Speed R.P.M.	Capacity	Weight Pounds	Length Overall	Spindle Offset	Code Word
**222	Lever	1800		3 3/4	11 1/16"	7/8"	ARIGE
222-Y	Lever	1100		4 9/16	11 11/16"	13/32"	AREKI
224	Pistol	1800	No. 10 to No. 16	4 1/4	9 1/2"	3/4"	ARIGI
224-Y	Pistol	1100	Wood Screw or	4 1/2	9 7/8"	3/4"	AREKO
225	Lever	1800	No. 10 to 5/16"	4	12 11/16"	7/8"	AREAM
225-Y	Lever	1100	Machine Screw or	5 1/8	12 7/8"	13/32"	AREKU
226	Pistol	1800	Nut.	4 5/8	10 5/8"	13/16"	AREAP
226-Y	Pistol	1100		4 7/8	11"	13/16"	AREKY
05ZN	Grip	500		6 1/2	12 9/16"	13/32"	AREKA
05ZN	Grip	500		6 3/4	14 5/16"	13/32"	AREKE
253-XN	Side†	700	No. 10 to No. 18	14 1/4	16"	1 1/4"	AREAZ
253-GN	Grip	700	Wood Screw or 3/8" Machine Screw or Nut.	9 3/8	16 1/8"	1 1/4"	ARELA
253-ZN	Side†	400	No. 10 to No. 20 Wood Screw or 3/8" Machine Screw or Nut.	14 1/4	16"	1 1/4"	ACUDF

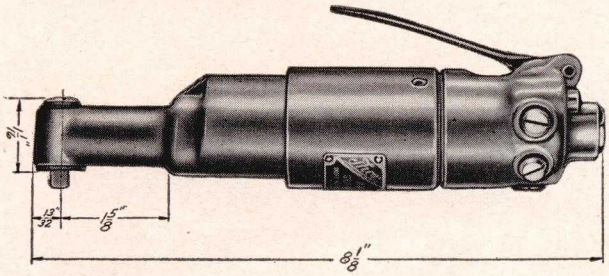
†Roll Type Side Throttle; or, if specified, Roll Type Self-Closing Throttle or Safety Lever Side Throttle.
**Illustrated above with optional No. 134 Attachment.

EQUIPMENT

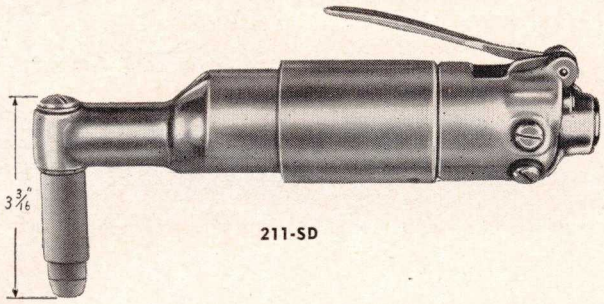
Size	
05ZN	Code Word AREKA: No. 491 Positive Clutch Attachment with Stationary Finder and three 1/4" Hexagon Screw Driving Bits.* Code Word AREKE: No. 463 Slip Clutch Screw Driving Attachment with Stationary Finder and three 1/4" Hexagon Screw Driving Bits.*
222, 224 222-Y, 224-Y	No. 491 Positive Clutch Attachment with Stationary Finder and three 1/4" Hexagon Screw Driving Bits.* Load Speed Regulator. Optional: 8 ft. 3/8" Hose with connections, if specified.
225, 225-Y 226, 226-Y	No. 463 Slip Clutch Attachment with Stationary Finder and three 1/4" Hexagon Screw Driving Bits.* Load Speed Regulator. Optional: 8 ft. 3/8" Hose with connections, if specified.
253-GN, 253-XN	No. 439 Positive Clutch Attachment with one 7/16" Hexagon Screw Driving Bit and Finder Assembly.* Spade Handle furnished with Size 253-XN.
253-ZN	No. 432 Positive Clutch Attachment with one 7/16" Hexagon Screw Driving Bit and Finder Assembly.* Spade Handle.

(*or with socket shank and one standard socket wrench)
Optional attachments for Sizes 222, 224, O5ZN—Code AREKA—Nos. 30, 131, 132, 134.
Optional attachments for Sizes 225, 225Y, 226, 226Y, 05ZN—Code AREKE—Nos. 222, 224.
Optional attachments for Sizes 253-GN, 253-XN—Nos. 131, 132.
Specify Size of Screw and whether Round or Flat Head or Size of Nut, whether Hexagon or Square, and Give Distance Across Flats.

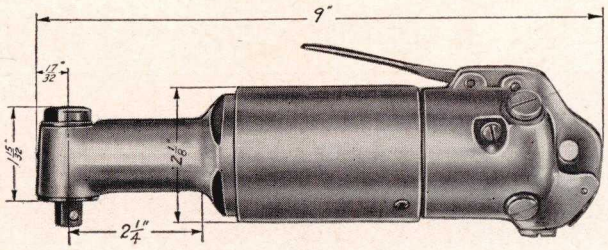
ROTARY RIGHT ANGLE SCREW DRIVERS AND NUT SETTERS



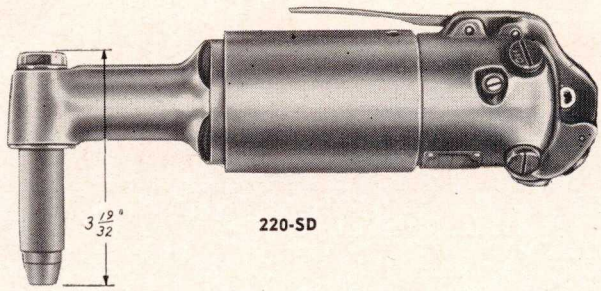
211



211-SD



220



220-SD

These tools are positive type, without clutches. However, they are provided with a speed regulator which, governing both speed and power under load, can be adjusted to drive various sizes of nuts, bolts or screws according to the particular requirements of various applications.

SCREW DRIVERS

Size	Free Speed	Weight Pounds	Length Overall	Ht. Rt. Angle Head	Spindle Offset	Code Word	Capacity
211-SD	900	2 1/4	8 1/8"	3 3/16"	13/32"	ARAXE	No. 12 W.S. or M.S.
220-SD	1000	3 3/8	9"	3 19/32"	17/32"	ARAXO	No. 10 to No. 16 W.S. or No. 10 to 5/16" M.S. or bolt

NUT SETTERS

211	900	2 1/8	8 1/8"	1 1/16"	13/32"	ARAXA	1/4" Nut
211-D	900	2 5/16	8 1/8"	1 7/16"	13/32"	ARELE	1/4" Nut
220	1000	3 1/4	9"	1 15/32"	17/32"	ARAXI	5/16" Nut
220-D	1000	3 5/16	9"	1 27/32"	17/32"	ARELI	5/16" Nut

EQUIPMENT

Load speed regulator. Lever Throttle.

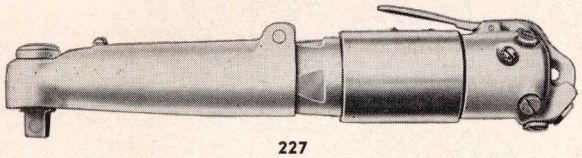
211, 211-D, 220, 220-D furnished with one standard 3/8" square drive socket wrench. Specify size of nut, whether hexagon or square, and distance across flats. (211-D and 220-D have double ended spindle, making them reversible in effect.)

211-SD, 220-SD furnished with one Finder and three 1/4" Hexagon Bits. Specify size of screw and whether round, flat or oval head. Optional: Spindle revolving in reverse (left hand) rotation for removing screws only, if so specified.

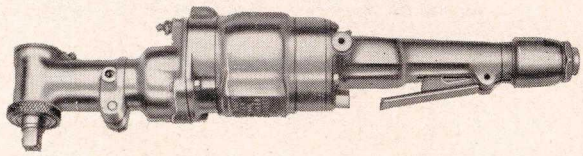
211, 211-D, 211-SD: Optional: 8 ft. length of 1/4" hose complete with hose nipples and clamps, if specified.

220, 220-D, 220-SD: Optional: 8 ft. length of 3/8" hose complete with hose nipples and clamps, if specified.

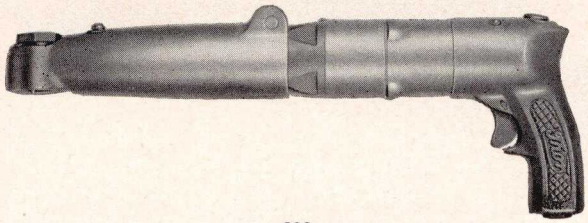
ROTARY RIGHT ANGLE NUT SETTERS



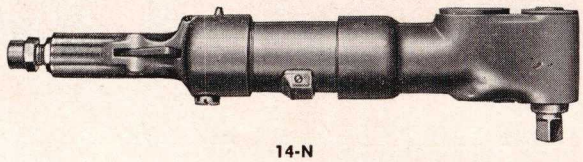
227



252NL



228



14-N

Size	Type Throttle	Speed R.P.M.	Nut Setting Capacity	Weight Pounds	Length Overall	Length of Right Angle Head	Code Word
219	Lever	1800	1/4" Bolt	3 1/4	10 25/32"	15/16"	ARIPW
227	Lever	850	5/16" Bolt	6	13 5/8"	1 11/32"	ARIFO
227-D	Lever	850	5/16" Bolt	6	13 5/8"	1 31/32"	AREHO
228	Pistol	850	5/16" Bolt	6 1/4	14"	1 11/32"	ARIFU
228-D	Pistol	850	5/16" Bolt	6 1/4	14"	1 31/32"	AREHU
14-N	Straight	450	5/16" Bolt	6 1/8	14 1/4"	2 13/32"	ARADA
14-ND	Straight	450	5/16" Bolt	6 1/4	14 1/4"	3 3/8"	AREHY
252-NL	Lever	400	5/16" Bolt	10 13/16	18 5/8"	2 3/4"	With 158C Attachment
252-NL	Lever	240	5/16" Bolt	12 1/8	22 19/32"	2"	With 416P Attachment
252-NL	Lever	200	5/16" Bolt	11 3/4	21 5/8"	1 11/32"	With 169P Attachment
269-LS	Lever	400	3/4" Bolt	20 1/2	22"	2 5/8"	ARIMB
269-LSD	Lever	400	3/4" Bolt	20 5/8	22"	4 7/16"	AREJE

EQUIPMENT

No. 14-N furnished with 1/2" Square Adaptor, and one standard Socket Wrench; or with No. 50316 Ball Lock Adaptor for 7/16" hexagon socket shanks.

No. 14-ND furnished with double-ended spindle with 1/2" Square Adaptors, and one standard Socket Wrench.

No. 219 furnished with No. 167A Right Angle Attachment with internal adjustable Slip Clutch and nut socket machined directly in right angle spindle (specify whether for Hexagon or Square Nut and size across flats); or with 1/4", 9/32" or 3/8" square socket adaptor, and one standard Socket Wrench, if so specified. Load Speed Regulator. Optional: 8 ft. length 1/4" hose complete with nipples and clamps, if specified. FOR DRIVING UP TO NO. 10 WOOD OR MACHINE SCREWS: No. 481 Right Angle Attachment with internal adjustable Slip Clutch, Auxiliary Positive Clutch, Non-rotating Finder and three 1/4" Hexagon Bits (specify size of screw and whether round or flat head).

Nos. 227 and 228 furnished with No. 169R Right Angle Attachment with internal adjustable Slip Clutch and nut socket machined directly in right angle spindle (specify whether for Hexagon or Square Nut and size across flats); or with 3/8" or 1/2" square socket adaptor, and one standard Socket Wrench, if so specified. FOR DRIVING UP TO NO. 16 WOOD OR 5/16" MACHINE SCREWS: No. 465 Right Angle Attachment with internal adjustable Slip Clutch, Auxiliary Positive Clutch, Non-rotating Finder and three 1/4" Hexagon Bits (specify size of screw and whether round or flat head). Load Speed Regulator. Optional: 8 ft. length 3/8" hose complete with nipples and clamps, if specified.

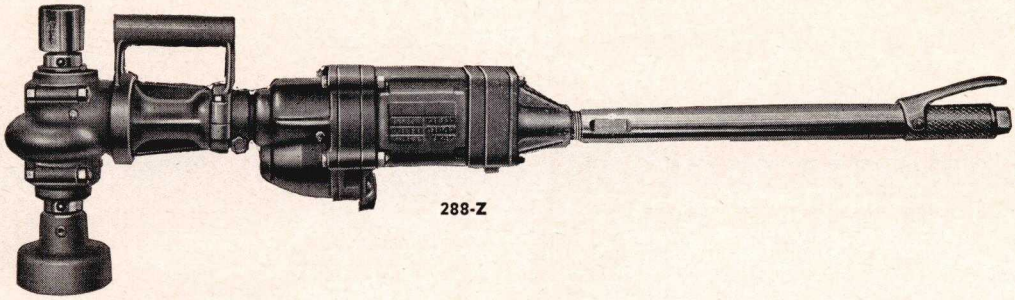
Nos. 227-D and 228-D furnished with No. 169RD Double End Right Angle Attachment with internal adjustable Slip Clutch and 3/8" or 1/2" square socket adaptors, and one standard Socket Wrench. Load Speed Regulator. Optional: 8 ft. length 3/8" hose complete with nipples and clamps, if specified.

No. 252-NL furnished with 1/2" square drive spindle, or with 5/8" square drive spindle if so specified. When specified with No. 169P Attachment, can be furnished with nut socket machined directly in right angle spindle (specify whether for Hexagon or Square Nut and size across flats).

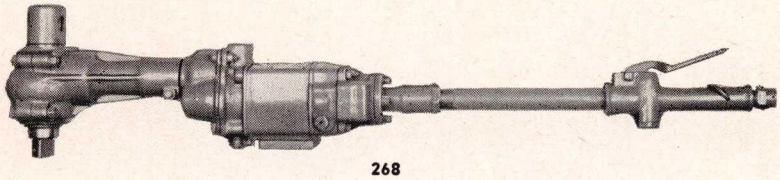
No. 269-LS furnished with No. 244C Positive Drive Right Angle Attachment with 5/8" Square Adaptor (or 1/2" Square, if specified), and one standard Socket Wrench.

No. 269-LSD furnished with No. 285C Positive Drive Double End Right Angle Attachment with 5/8" Square Adaptors (or 1/2" Square, if specified), Spindle Protection Cap, and one standard Socket Wrench.

ROTARY PNEUMATIC WRENCHES



288-Z



268

Size	Speed R.P.M.	Capacity	Weight Pounds	Socket Adaptor	Length Overall	Spindle Offset	Code Word
268	170	1" Nut Driving	32	3/4" Square*	37"	1 7/8"	ARIOT
288-Z	110	2" Nut Driving	52 1/2	1" Square**	47 1/2"	2 1/4"	ARIWI

*5/8" Square Socket Adaptor optional.

**3/4" Square Socket Adaptor optional.

STANDARD EQUIPMENT

Size	
268 288-Z	One Standard Socket of size desired for nut driving. Specify size across flats of square or hexagon socket. Spindle Protection Cap. Size 288-Z: Attachable Spade Handle for Spindle Support. Special Extension Dead Handle optional.

PNEUMATIC WRENCH (Piston Motor Type)

Size	Type	Speed R.P.M. Fwd.	Speed R.P.M. Rev.	Capacity	Weight Lbs.	Length Overall	Spindle Size	Spindle Offset
BBC-6	Rev.	24	16	Tightening and removing large nuts, cap screws plugs in oil stills, rolling heavy tubes, etc.	163 with dead Handles	27 1/8"	1 1/8" Square Hole	4 5/16"

EQUIPMENT

Roll type throttle handle, grip handle, two dead handles, 1 1/8" square shank chuck with retainer nut and 1 1/8" square hole, or specified size of square or hexagon hole.

MULTI-MATIC AIR TOOL KIT

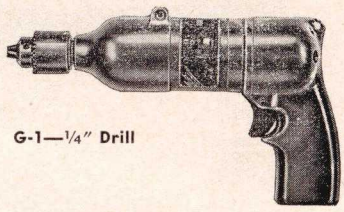
7 COMPLETE TOOLS IN 1 COMPACT KIT

COMPLETE KIT
Size No. G-9 Multi-Matic Kit includes all parts to make up the seven different tools —packed in metal carrying case.

To bring to the automotive service industry the features of smaller size, greater power, dependable performance and lower maintenance cost that are the inherent advantages of pneumatic tools, Thor has developed the Thor MULTI-MATIC Air Tool Kit.

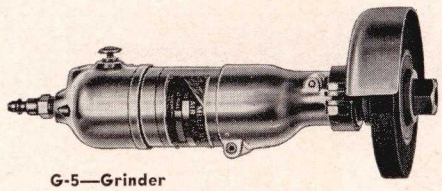
This kit consists of a small powerful air motor with simple, interchangeable attachments for drilling, grinding, sanding, polishing, buffing, and hole sawing.

Each of these tools can be assembled from air motor and units in complete kit.

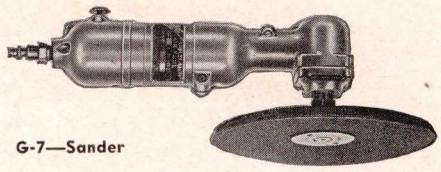


G-1—¼" Drill

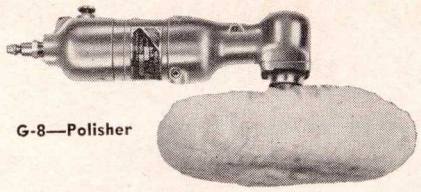
G-3—½" Right Angle Drill



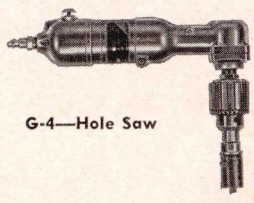
G-5—Grinder



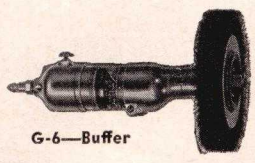
G-7—Sander



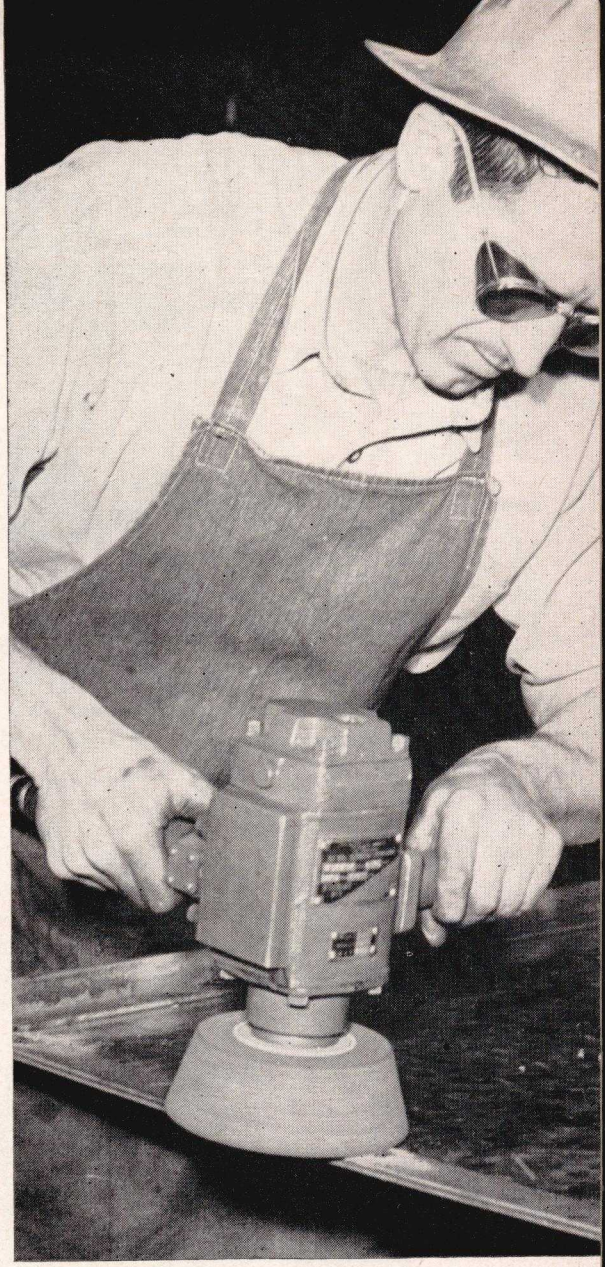
G-8—Polisher



G-4—Hole Saw



G-6—Buffer

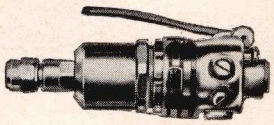


ROTARY GRINDERS, SANDERS

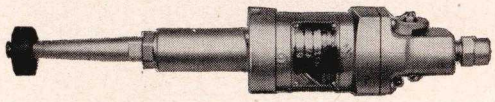
• Thor Portable Air Grinders are available in a complete range of sizes and models, carefully graduated as to weights, lengths, speeds, and wheel capacities. From snagging rough castings to finishing precision dies, there is a Thor portable grinder specifically designed to do the job better and faster!

ROTARY AIR GRINDERS

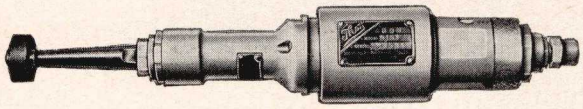
SMALL WHEEL GRINDERS



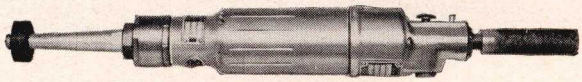
000L—Lever Throttle



00D



00H



10

Adapted for die work, and other production grinding operations for shop, laboratory or work bench. Can also be used extensively by machinists, airplane manufacturers, plastic manufacturers, and other mechanics. These grinders can be used with many accessories—with wheels, mounted points, rotary files, steel cutters, soft felt and rubber polishers, wire wheels and other popular attachments.

Size	Size of Wheel		Speed R.P.M.	Weight	Spindle Thread	Length Overall	Code Word
	Vitrified	Bonded					
000H	1 1/4"x1/2"		20,000	22 ozs.		6 3/8"	AREOP
000HL	1 1/4"x1/2"		20,000	21 ozs.		5 3/4"	AREGE
000	1 1/2"x1/2"		14,000	20 ozs.		6 3/8"	ARAPU
000L	1 1/2"x1/2"		14,000	19 ozs.		5 3/4"	AREGA
00D	1 1/4"x1/2"	1 1/2"x1/2"	21,000	3 3/16 lbs.	3/8"x24	9 1/2"	AROTU
00H	1 1/2"x1/2"	2" x1/2"	17,000	5 1/16 lbs.	3/8"x24	13 3/8"	ARECU
10-18	1 1/2"x1/2"	2" x1/2"	18,000	4 3/8 lbs.	3/8"x24	*15"	ARAST
10-15	1 1/2"x1/2"	2 1/2"x1/2"	15,000	4 3/8 lbs.	3/8"x24	*15"	ARASU
10-10	2" x1/2"	3" x1/2"	10,500	4 3/8 lbs.	3/8"x24	*15"	ARASY
10- 7	3" x1/2"		7,000	4 3/8 lbs.	3/8"x24	*15"	ARASA

*Length 12" less removable extension handle illustrated.

For Grinding Wheels, see pages 32 and 33.

EQUIPMENT

Size	Standard Equipment	Optional Equipment
000 000H	Push Button Throttle with Slide Lock. 1/4" Collet. Swivel Hose Connection.	8 ft. Length of Hose complete with Nipples and Clamps, if specified. No. 67956 1/8" Reducing Sleeve.
000L 000HL	Lever Throttle, Load Speed Regulator, 1/4" Collet.	8 ft. Length of Hose complete with Nipples and Clamps, if specified. No. 67956 1/8" Reducing Sleeve.
00D 00H 10	One 3" long Spindle Extension to accommodate Wheels with 1/4" arbor hole.	One 3/32", 1/8", 1/4", 3/8", or 1/2" Collet. Wheel guard in place of spindle extension or collet, if so specified. 8 ft. Length of Hose with Hose Nipples and Clamps, if specified.

Wheels are Extra Equipment, Not included in price of tool.

ROTARY VALVE SEAT GRINDER

No. 55

Size 55 Thor Rotary Pneumatic Valve Seat Grinder is offered in two speeds: 8000 R.P.M. for operating wheels of diameters up to 4"; 5400 R.P.M. for the larger valve seat grinding wheels up to 6" diameter.

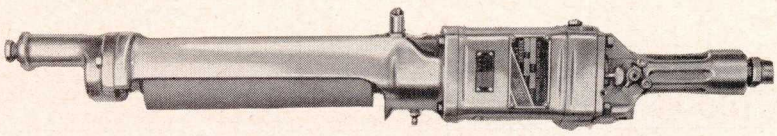
These Size 55 Thor machines are powered for continuous, heavy duty service. They are ideally suited to gas and Diesel engine truck and bus maintenance shops and railroad Diesel maintenance shops.

SPECIFICATIONS

Size	Wheel Capacity	Speed R.P.M.	Weight Pounds	Length Overall Inches	Spindle Offset Inches	Type Throttle	Spindle		Hose Size In.	Hose Inlet Pipe Thread In.	1/2" to 3/8" Reducer When Specified	Code Word
							1" Diameter Spline	No. 75950 1/2" Straight Hexagon				
55-8000	4"	8000	8 3/4	12	1 25/32	Grip	Standard	Optional	1/2	1/2	Optional	ARISA
55-5400	6"	5400	8 3/4	12	1 25/32	Grip	Standard	Optional	1/2	1/2	Optional	ARISB

For Accessories see Bulletin P-1263

ROTARY ROD GRINDERS



No. 374

The New THOR Rotary Pneumatic Rod Grinders—
Size 366, using 2 1/2" diameter x 6" wide grinding wheel
Size 374, using 2 1/2" diameter x 9" wide grinding wheel
are built for railroad shop service and other applications requiring grinders of this type, for grinding broad flat surfaces.

In railroad service, these machines are particularly adapted to grinding locomotive rods for locating cracks, polishing of rods, etc.; for locomotive frames after welding; to replace filing for fit of shoes and wedges; for journal boxes and for link motion work. The wheel guard will enter 2 3/4" spaces.

SPECIFICATIONS

Size	Vitrified Grinding Wheel Standard Equipment			Speed R.P.M.	Weight Pounds	Length Overall Inches	Type Throttle Handle	Spindle Diameter Inches	Hose Size Inches	Inlet Pipe Thread Inches	Code Word
	Diameter	Width	Hole								
366	2 1/2"	6"	3/4"	6000	19	26 1/4	Straight	3/4	3/4	1/2	ARIPY
374	2 1/2"	9"	3/4"	6000	21	29 1/4	Straight	3/4	3/4	1/2	ARIPZ

ROTARY AIR GRINDERS

NO. 250 SERIES

250

Size	Size of Wheel		Speed R.P.M.	Weight Lbs.	Spindle Thread	Length Overall	Type Throttle	Code Word
	Vitrified	Bonded						
250-X	2½"x1"	4"x1"	9000	9¾	⅝"x11	19½"	Straight	ACREA
250	4"x1"	5"x1"	6000	9¾	⅝"x11	19½"	Straight	ACRAB
250-G	4"x1"	5"x1"	6000	9¾	⅝"x11	17½"	Grip	ACRSY

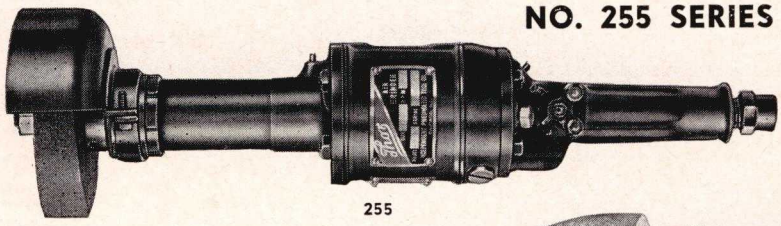
EQUIPMENT

Wheel guard is standard on all above grinders. All of the above grinders can be furnished with ½" instead of standard ⅝" diameter spindle, if so specified.

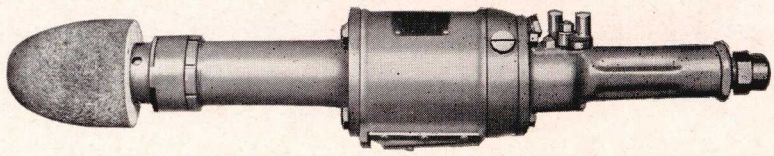
250, 250G—Optional: Extended spindle to accommodate up to 2" wide buffing wheels furnished if specified, in place of wheel guard.

For Grinding Wheels, see page 32.

NO. 255 SERIES



255



255-X

Size	Size of Wheel		Speed R.P.M.	Weight Lbs.	Spindle Thread	Length Overall	Type Throttle	Code Word
	Vitrified	Bonded						
255	4"x1"	6"x1"	*5800	10¾	⅝"x11	20"	Straight	ARIDP
255-G	4"x1"	6"x1"	*5800	11¼	⅝"x11	18½"	Grip	AREAC
L-255	4"x1"	6"x1"	*5800	11¾	⅝"x11	23"	Lever	AREAB
255-X	Cone Wheel 3" O.D.x3½" long		8000	10½	⅝"x11	23¼"	Straight	ACUBY
255-GX			8000	10½	⅝"x11	20½"	Grip	ACUGA
L-255-X			8000	10½	⅝"x11	23¼"	Lever	ACUFY

*Also available at 2000 R.P.M. for wire brush work. When so required add suffix "-2" to size number.

EQUIPMENT

Wheel guard is standard on Nos. 255, 255-G and L-255; or 6" cup type or 2 sections 6" radial type wire brush in place of wheel guard, if specified. All the above grinders can be furnished with ½" instead of standard ⅝" diameter spindle, if so specified.

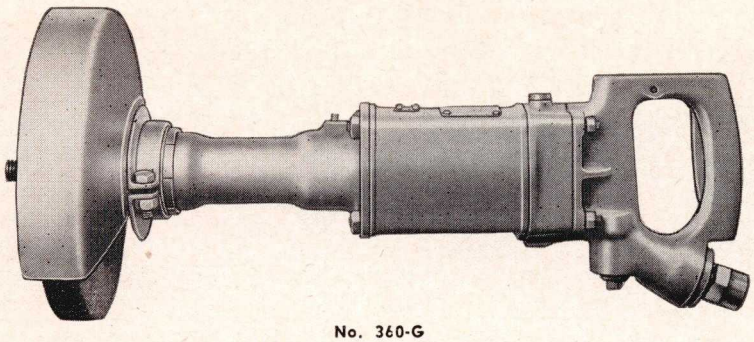
255, 255-G, L-255—Optional: Extended spindle to accommodate up to 3" wide buffing wheels furnished if specified, in place of wheel guard.

255-X, 255-GX, L-255-X: Cone Wheel is extra equipment, furnished at additional charge.

For Grinding Wheels, see page 32.

ROTARY AIR GRINDERS

NO. 360 SERIES



No. 360-G

For the very heaviest type of production grinding these models are unsurpassed. Ruggedly built, extremely well balanced, they will turn out an extraordinary amount of work.

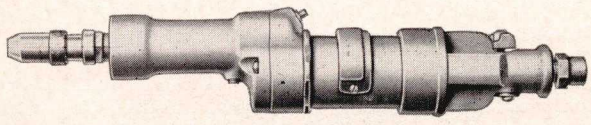
Size	Size of Wheel		Speed R.P.M.	Weight Lbs.	Spindle Thread	Length Overall	Type Throttle	Code Word
	Vitrified	Bonded						
360-GY	4"x1"	6"x1"	6000	16 1/4	5/8"x11	20"	Grip	ARAVU
360	5"x1"	8"x1"	4500	14	5/8"x11	23"	Straight	ACUBU
360-G	5"x1"	8"x1"	4500	16 1/4	5/8"x11	20"	Grip	ACUBE
L-360	5"x1"	8"x1"	4500	17 1/4	5/8"x11	25 3/4"	Lever	ACUBO
360-V	8"x1"		3000	14	5/8"x11	23"	Straight	ARASE
360-GV	8"x1"		3000	16 1/4	5/8"x11	20"	Grip	ARASI
L-360-V	8"x1"		3000	17 1/4	5/8"x11	25 3/4"	Lever	ARASO

EQUIPMENT

Wheel guard is standard on all above grinders. In place of wheel guard, if so specified: with 360, 360-G, L-360, 360-GY—6" cup type or 2 sections 6" radial type wire brush; with 360-V, 360-GV, L-360-V—6" cup type or 2 sections 6", 8" or 10" radial type wire brush.

Optional: Extended spindle to accommodate up to 3" wide buffing wheels furnished if specified, in place of wheel guard.

ROTARY FILE



Size	Size of Wheel	Speed R.P.M.	Weight Lbs.	Spindle Thread	Length Overall	Code Word
06	Rotary Files with 1/4" dia. Shank	4600	3 3/4	3/8"x24	12 3/4"	ARAXU

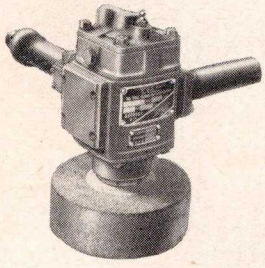
EQUIPMENT

Butterfly throttle, 1/4" collet.

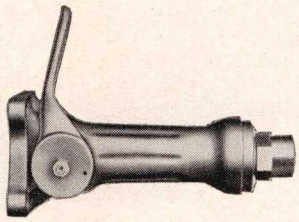
For Grinding Wheels, see page 32.

ROTARY SANDERS

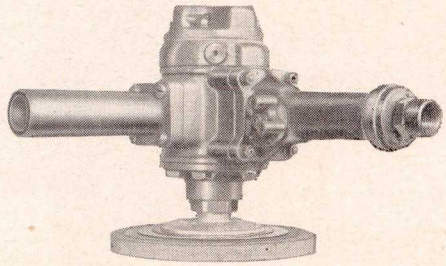
DRY AND WET TYPES



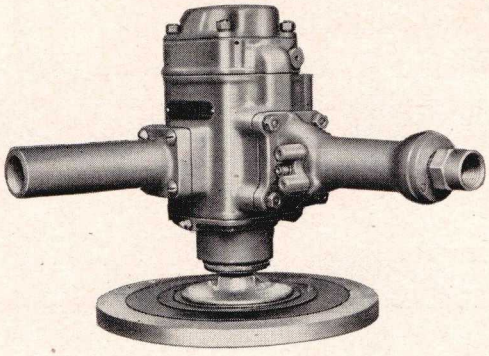
260-S
With Wheel Less Guard



No. 72576 Self-Closing Throttle
(optional)

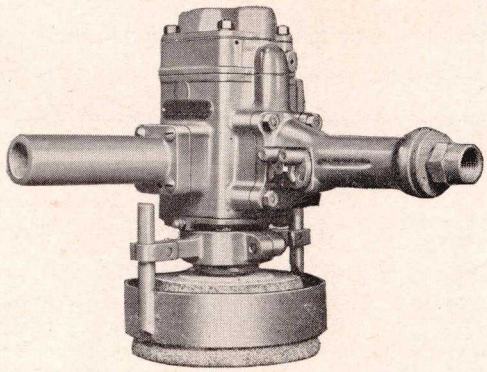


250-D



360-S

Lever Throttle
(optional)



360-S
With Wheel Guard

There is a complete range of Thor Sanders for all kinds of surfacing, including both wet and dry types. They can be used with sanding pads or any of three different types of wheels: cone wheel, cup wheel, or concrete surfacing wheel.

Size	Type	Size of Wheel	Speed R.P.M.	Weight Lbs.	Spindle Thread	Length Overall	Code Word
250-D	Dry	7" Disc, 5" Cup Wheel, 5" Concrete Surfacing Wheel, or 4" Cup Wire Brush.	5400 *	7 1/2	5/8"x11	7 3/8"	ARARE
260-SY	Dry	5" Vitrified or 6" Hard	6000	10 1/4	5/8"x11	8"	ARIPR
360-SY	Dry	Bond Cup Wheel, 7" Disc	6000	13	5/8"x11	9"	ARIOW
260-S	Dry	9" Disc, 6" Cup Wheel,	4500	10 1/4	5/8"x11	8"	ACRSA
360-S	Dry	6" Concrete Surfacing	4500	13	5/8"x11	9"	ACRSE
360-W	Wet	Wheel, or 6" Cup Wire Brush.	4500	14 1/4	5/8"x11	9 1/2"	ARIKO

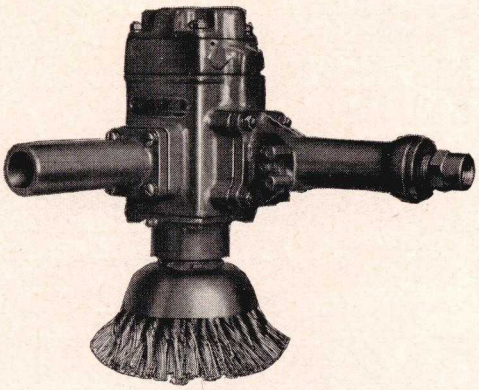
*When required for operating 6" cup wire brush, No. 250-D can be furnished with free speed of 4500 R.P.M., by specifying Size 250D-4.

EQUIPMENT: Wheel nut. Adaptor nut. Wheel guard furnished if specified. Sanding pads and wheels are extra equipment, not included in price of tool.

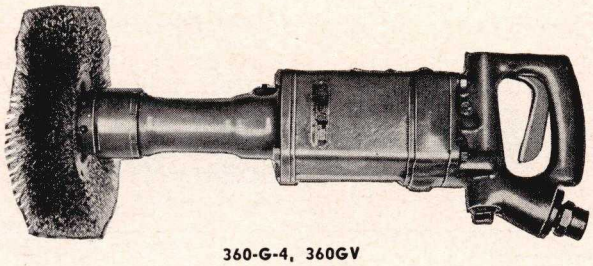
NOTE: Butterfly throttle is standard; lever throttle or No. 72576 self-closing throttle furnished if specified.

For Sanding Discs and Grinding Wheels, see pages 32 and 34.

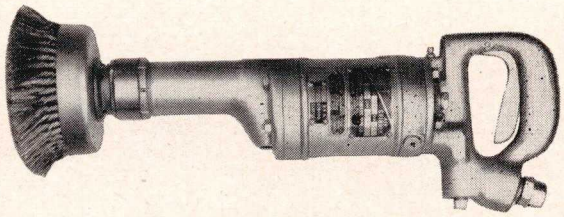
WIRE BRUSH MACHINES



250D-260S-360S



360-G-4, 360GV



256-G

Size	Type of Machine	Wire Brush Capacity		Speed R.P.M.	Weight Pounds	Spindle Thread	Length Overall	Code Word
		Radial Type Diameter	Cup Type Diameter					
255G-4	Straight	6"	6"	4500	11 1/4	5/8"x11	18 1/2"	AREHE
360G	Straight	6"	6"	4500	16 1/4	5/8"x11	20"	ACUBE
256G	Straight	6" or 8"	6"	1650	12	5/8"x11	19"	ARXUS
360GV	Straight	8" or 10"	6"	3000	16 1/4	5/8"x11	20"	ARASI
250D	Vertical	.....	4"	5400	7 1/2	5/8"x11	7 3/8"	ARARE
250D-4	Vertical	.....	6"	4500	7 1/2	5/8"x11	7 3/8"	AREHI
260S	Vertical	.....	6"	4500	10 1/4	5/8"x11	8"	ACRSA
360S	Vertical	.....	6"	4500	13	5/8"x11	9"	ACRSE

NOTE: Straight type machines listed above furnished with grip throttle handle. Vertical type machines Nos. 250D, 250D-4, 260S, 360S furnished with butterfly throttle; or with lever throttle or No. 72576 self-closing throttle, if so specified.

EQUIPMENT

STRAIGHT TYPE MACHINES: Size 256G: one 6" diameter Cup Type Wire Brush or two sections of Radial Type Wire Brush of diameter specified; sizes 255G-4, 360G, 360GV: Two sections of Radial Type Wire Brush of diameter specified, or one 6" diameter Cup Type Wire Brush, as specified, included in price of machine.

VERTICAL TYPE MACHINES: Standard wheel guard, if specified. Cup Type Wire Brush, 4" or 6" diameter, furnished at additional charge over price of machine.

4", 6", 8" Sectional Type Radial Brushes in #30, #33 or #36 gauge wire. 10" Sectional Type Radial Brushes in #30 or #33 gauge wire. 6" Cup Type Brushes in .020" or .030" diameter wire.

Specify Size and Type of Wire Brush and Wire Gauge or Diameter Desired. For Wire Brushes, see page 34.

GRINDING WHEELS

(For all grinders on preceding pages excepting 000 Series)

* Order by catalog number.

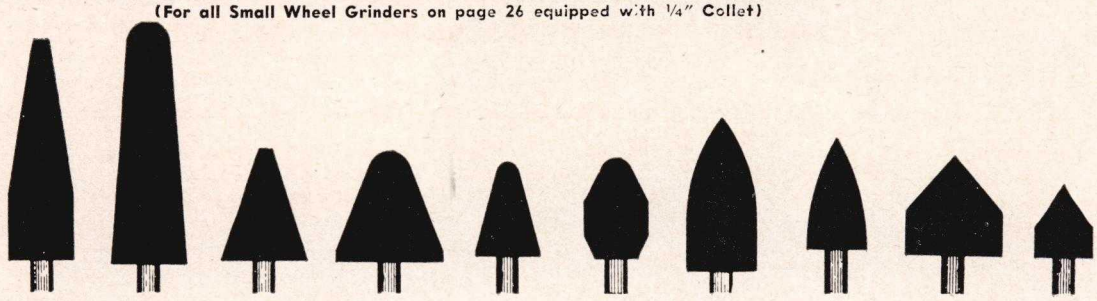
Key to code of wheel grades recommended: 1—General Purpose, 2—Hardened and Stainless Steel, 3—Cast Iron, 4—Aluminum, 5—Brass, Bronze, 6—Welds, 7—Carbide Tools, 8—Concrete Surfacing.

Size Dia. Wdth. Hole	Type	Spindle Speed not to Exceed	*Wheel Grades Recommended for All Types of Grinding (See Code Table Above)						
			1	2	3	4	5	6	7
1¼x½x¼	Vit	26000	72173	72174	72175	72176	72175	72177	72348
1¼x½x⅜	Vit	21000	72178	72179	72180	72181	72180	72182	72358
1½x½x¼	Vit	18000	72183	72184	72184	72185	72186	72187	72378
1½x½x¼	Bnd	21000	72188	72189	72190	72190	72190	72379	
1½x½x⅜	Vit	18000	72191	72192	72193	72194	72193	72195	72380
2x½x¼	Vit	12000	72205	72206	72207	72208	72207	72209	72391
2x½x¼	Bnd	18000	72210	72211	72212	72212	72212	72408	
2x½x⅜	Vit	12000	72213	72214	72215	72216	72215	72217	72417
2½x½x¼	Bnd	15000	72221	72222	72223	72223	72223	72824	
2½x½x⅜	Bnd	15000	72224	72225	72226	72226	72226	72825	
2½x1x½	Vit	9000	72227	72228	72229	72230	72229	72231	72820
2½x1x⅝	Vit	9000	72232	72233	72234	72235	72234	72236	72822
3x½x¼	Bnd	10800	72237	72238	72239	72239	72239	72823	
3x½x⅜	Bnd	10800	72240	72241	72242	72242	72242	72243	
4x1x½	Vit	6000	72268	72269	72271			72270	72272
4x1x½	Bnd	9000	72830	72831	72832	72829	72829		
4x1x⅝	Vit	6000	72277	72278	72280			72279	72281
4x1x⅝	Bnd	9000	72283	72284	72285	72282	72282		
5x1x½	Bnd	6000	72295	72296	72297	72298	72298	72838	
5x1x⅝	Vit	4500	72299	72300	72301			72302	72836
5x1x⅝	Bnd	6000	72303	72304	72305	72306	72306	72837	
6x1x½	Bnd	6000	72325	72326	72327	72328	72328	72320	
6x1x⅝	Vit	4000	72333	72334	72335	72336	72336	72337	72338
6x1x⅝	Bnd	6000	72339	72341	72340	72834	72834	72342	
8x1x⅝	Vit	3000	72372	72373	72374	72375	72375	72376	72377
8x1x⅝	Bnd	4500	72382	72385	72383	72384	72384	72381	
Straight Cup Wheel 5x2x⅞ 1½" Rim; ¾" Back	Bnd	6900	72435	72436	72437	72438	72438	72435	*72826
Straight Cup Wheel With Bushing 5x2x⅝ (11 thd) 1½" Rim; ¾" Back	Bnd	6900	72440	72441	72442	72443	72443	72440	*72444
Flaring Cup Wheel 5/3-3/4x2x7/8 1" Rim; ¾" Back	Bnd	7250	72445	72446	72447	72448	42448	72445	
Flaring Cup Wheel With Bushing 5/3-3/4x2x5/8 (11 thd) 1" Rim; ¾" Back	Bnd	7250	72449	72450	72451	72452	72452	72449	
Straight Cup Wheel 6x2x7/8 1⅞" Rim; ¾" Back	Bnd	5725	72453	72454	72455	72456	72456	72453	*72842
Straight Cup Wheel With Bushing 6x2x⅝ (11 thd) 1⅞" Rim; ¾" Back	Bnd	5725	72458	72459	72460	72461	72461	72458	*72462
Flaring Cup Wheel 6/4-3/4x2x7/8 1" Rim; ¾" Back	Bnd	6050	72463	72464	72465	72466	72466	72463	
Flaring Cup Wheel With Bushing 6/4-3/4x2x5/8 (11 thd) 1" Rim; ¾" Back	Bnd	6050	72467	72468	72469	72470	72470	72467	
Cone Wheel 3x3½x⅝ (11 thd)	Bnd	12100	72471		72472		72471		
Cone Wheel 3x3½x½ (13 thd)	Bnd	12100	72473		72474		72473		

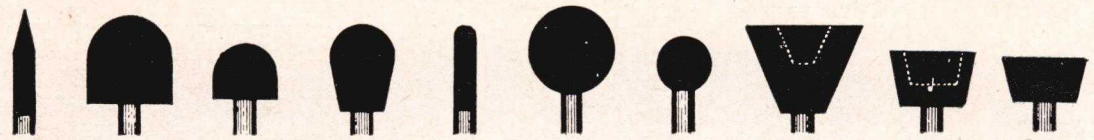
*Concrete Surfacing Wheels (Code 8)

MOUNTED WHEELS AND POINTS

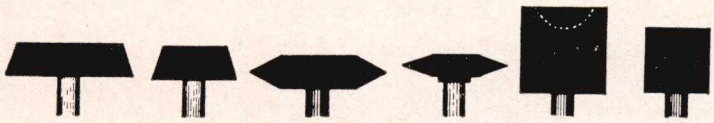
(For all Small Wheel Grinders on page 26 equipped with 1/4" Collet)



Cat. No.	72648	71723	71722	72649	72650	72651	72652	72653	72654	72655
Widest Dia.	3/4"	7/8"	1"	1 1/4"	3/4"	3/4"	13/16"	11/16"	1 1/8"	11/16"
Abrasive Lgth.	2 1/2"	2 3/4"	1 1/4"	1 1/4"	1 1/8"	1 1/8"	1 3/4"	1 1/4"	1 1/8"	7/8"



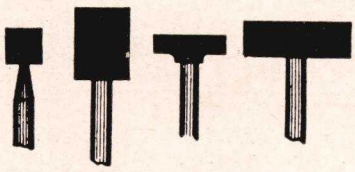
Cat. No.	72656	71724	72657	72658	72659	71725	72660	71726	72662	72663
Widest Dia.	1/4"	1"	3/4"	3/4"	1/4"	1"	5/8"	1 3/8"	1"	1"
Abrasive Lgth.	1 1/16"	1"	5/8"	1"	3/4"	1"	5/8"	1"	5/8"	1/2"



Cat. No.	72664	72665	72661	72666	72667	72668
Widest Dia.	1 1/2"	1"	1 5/8"	1 1/4"	1"	3/4"
Abrasive Lgth.	3/8"	3/8"	3/8"	1/4"	1"	3/4"

NOTE

Mandrels on all these mounted wheels and points have 1/4" chucking diameter and 2" length (projection from face of abrasive).



See Tables Below

PLAIN WHEELS

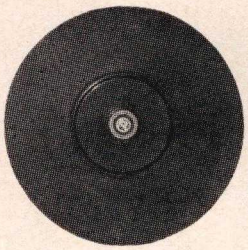
NOTE

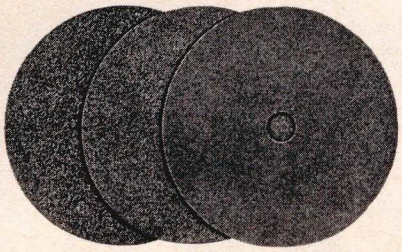
Mandrels on all plain wheels listed in tables below have 1/4" chucking diameter and not over 2" length (projection from face of abrasive).

Catalog No.	Size		Catalog No.	Size		Catalog No.	Size		Catalog No.	Size	
	Dia. In.	Abrasive Lgth.		Dia In.	Abrasive Lgth.		Dia. In.	Abrasive Lgth.		Dia. In.	Abrasive Lgth.
72669	3/32	1/4	72686	5/16	1/4	72703	5/8	1/4	72744	7/8	1/8
72670	1/8	1/8	72687	5/16	1/2	72704	5/8	3/8	72745	7/8	1/4
72671	1/8	1/4	72688	3/8	1/8	72705	5/8	1/2	72746	1	1/8
72672	1/8	3/8	72689	3/8	1/4	72706	5/8	3/4	72747	1	1/4
72673	1/8	1/2	72690	3/8	3/8	72707	5/8	1	72748	1	3/8
72674	5/32	1/4	72691	3/8	1/2	72708	5/8	2	72749	1	1/2
72675	3/16	1/8	72692	3/8	3/4	72709	3/4	1/16	72750	1	3/4
72676	3/16	1/4	72693	3/8	1 1/4	72710	3/4	1/8	72751	1	1
72677	3/16	3/8	72694	1/2	1/16	72711	3/4	1/4	72752	1 1/4	1/4
72678	3/16	1/2	72695	1/2	1/8	72712	3/4	3/8	72753	1 1/4	3/8
72679	1/4	1/16	72696	1/2	1/4	72713	3/4	1/2	72754	1 1/4	1/2
72680	1/4	1/8	72697	1/2	3/8	72714	3/4	3/4	72755	1 1/4	3/4
72681	1/4	3/16	72698	1/2	1/2	72739	3/4	1	72756	1 1/2	1/4
72682	1/4	1/4	72699	1/2	3/4	72740	3/4	1 1/4	71727	1 1/2	1/2
72683	1/4	3/8	72700	1/2	1	72741	3/4	1 1/2	72757	1 1/2	1
72684	1/4	1/2	72701	1/2	1 1/2	72742	3/4	2	72758	1 1/2	1 1/2
72685	1/4	3/4	72702	5/8	1/8	72743	3/4	2 1/2			

All mounted wheels and mounted points are packed ten to a box.

SANDING PADS





Catalog Number	Description
74139	7" Rubber Pad (Use Nut 59572)
74140	9" Rubber Pad (Use Nut 59572)
59572	Nut for Pad
64854	7" Felt Pad (Use Nut 35549)
35548	9" Felt Pad (Use Nut 35549)
35549	Nut for Pad

SANDING DISCS

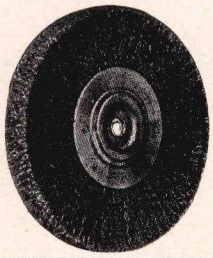
For Metal and Wood Sanding
(Closed Grain Type)

Grade Closed Grain	7" Disc Catalog Number	9" Disc Catalog Number
16	72775	72797
24	72776	72798
30	72777	72799
36	72778	72800
50	72779	72801
60	72780	72802
80	72781	72803
100	72782	72804
120	72783	72805
150	72784	72806
180	72785	72807

For Wood Sanding
(Open Grain Type)

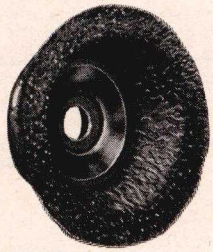
Open Grain		
16	72786	72808
24	72787	72809
30	72788	72810
36	72789	72811

*Can furnish with 1/2" or 5/8" hole, if specified.



WIRE BRUSHES

Arbor Hole Adaptor Type



Heavy Duty

Brush Size	Brush Width Face	Brush Width Hub	Size Arbor Max.	Size Arbor Min.	Catalog Number Wire Gauges 30	33	36
6"	1 1/2"	1 1/8"	2"	1/2"	72588	72594	
8"	1 3/4"	1 1/4"	2"	1/2"	72590	72596	
10"	2 1/2"	2"	2"	3/4"	72591	72597	

Standard Duty

6"	1"	5/8"	2"	1/2"	73062	73068	
8"	1 1/8"	3/4"	2"	1/2"	73064	73070	
10"	1 1/2"	7/8"	2"	1/2"	73065	73071	

Sectional Type

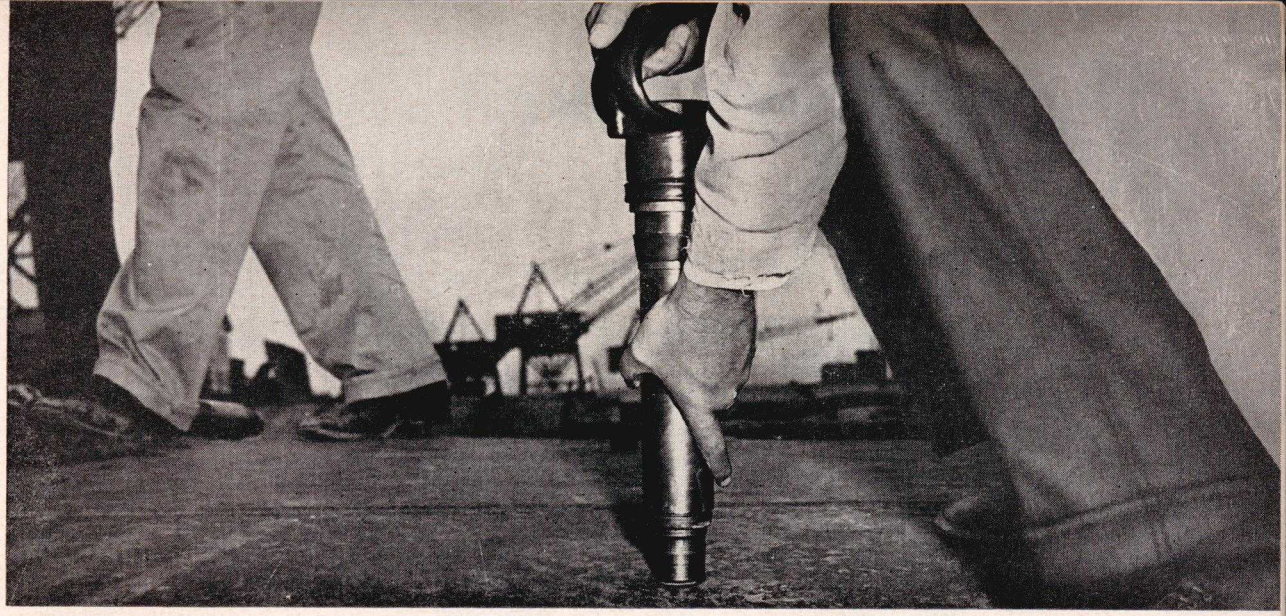
6"	3/4"	3/8"	1 3/4"	3/8"	72617	72624	72630
8"	7/8"	3/8"	2"	3/8"	72619	72626	72631
10"	1"	1/2"	2 1/2"	1/2"	72620	72627	

Cup Type

Outside Diameter	Inside Diameter	Arbor Hole	Wire Size	Catalog Numbers General Purpose	Heavy Duty
4"	2"	5/8"	.020"	73073	72632
4"	2"	5/8"	.012"	73074	72633
6"	3 1/2"	5/8"	.020"	73075	72634
6"	3 1/2"	5/8"	.030"	73076	72635
*4"	2"	5/8"-11	.020"	73077	72636
*4"	2"	5/8"-11	.012"	73078	72637
*6"	3 1/2"	5/8"-11	.020"	73079	72638
*6"	3 1/2"	5/8"-11	.030"	73080	72639

* Equipped with Threaded Arbor, 5/8" x 11 thread.

WHEN ORDERING WIRE BRUSHES ORDER BY CATALOG NUMBER AND SPECIFY ARBOR HOLE REQUIRED

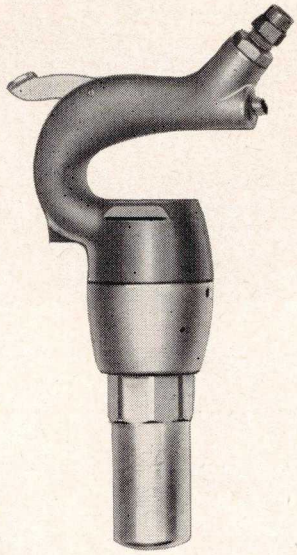


THOR HAMMERS

• Thor Hammer construction is the achievement of long years of engineering experience in the building of pneumatic tools. Designed and developed by engineers whose substantial contributions to the craft of tool making have won acclaim in the most remote corners of the globe, Thor Hammers embody those improvements in design and construction so essential to tools that must stand up under the shock and strain to which they are subjected in modern industry.

CHIPPING HAMMERS

PLATE VALVE TYPE



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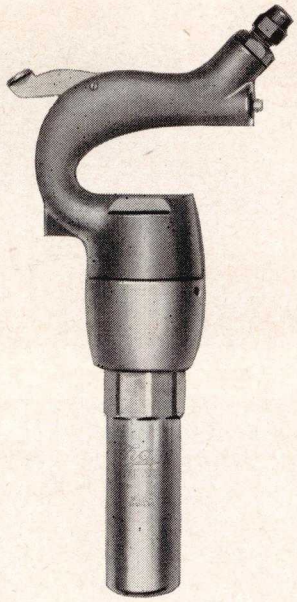

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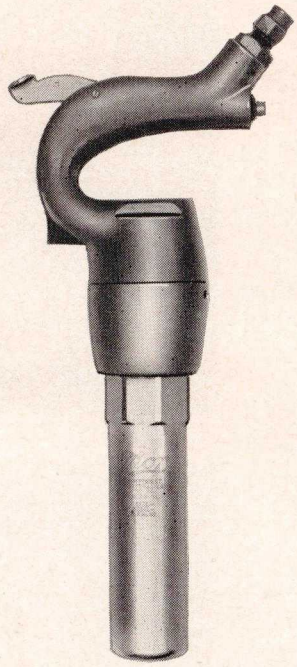
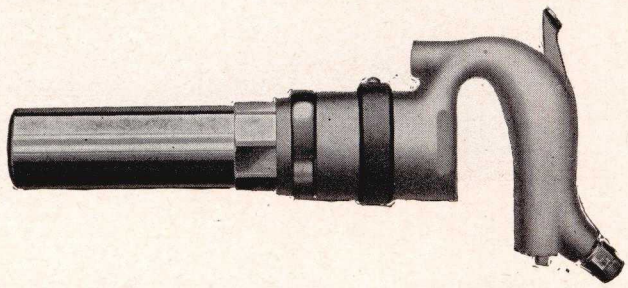


33

Size	Bore	Stroke	Length Overall	Weight Pounds	Code Word	
					"L" Handle	"B" Handle
11	1 1/8"	1"	12 3/4"	12	PLAFO	Specify
22	1 1/8"	2"	14 1/4"	13	PLAFU	"B"
33	1 1/8"	3"	15 5/8"	14 1/2	PLAFY	Handle

SPOOL VALVE TYPE



Size	Bore	Stroke	Length Overall	Weight Pounds	Code Word	
					"L" Handle	"B" Handle
1	1 1/8"	1"	11 1/8"	11 1/8	FOUNA	FOUNC
1F	1 1/8"	1 1/2"	12 1/2"	11	FOUND	FOUNG
2	1 1/8"	2"	13 1/2"	12	FOUNO	FOUNI
2F	1 1/8"	2 1/2"	14 5/16"	13 1/8	FOUNF	FOUNP

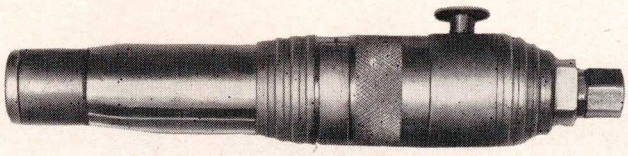
EQUIPMENT

Standard	Optional	Extra
"L" Type Open Handle. Navy Standard Nozzle, Round or Hexagon.	No. 61184 Reducer, 3/8" male, 1/4" female pipe thread, if specified.	Safety Chisel Retainer, THOR quick change type or solid.

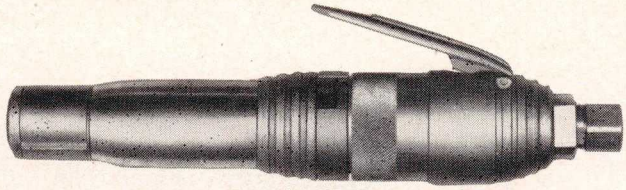
Optional Equipment for all sizes also includes Closed Handle—"B" Type, inside trigger.

For Chisels, see page 39.

WELD FLUX SCALING HAMMERS



Size 7B (Button Throttle)



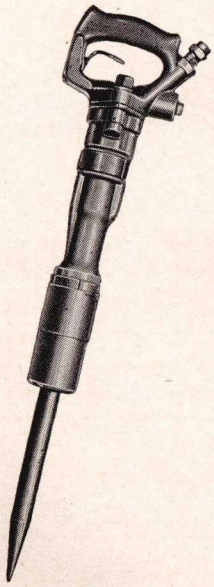
Size 7L (Lever Throttle)

Size 7P (Push Throttle)

Size	Type Valve	Type Throttle	Bore	Stroke	Length Overall	Weight Pounds	Code Word
7B	Plate	Button	15/16"	3/4"	10 1/4"	4	PLAFA
7L	Plate	Lever	15/16"	3/4"	10 1/4"	4	PLAFE
7P	Plate	Push	15/16"	3/4"	10 1/4"	4	PLAFI

EQUIPMENT

Standard	Optional
1/2" Square Nozzle. Quick Change retainer. No. 73501 (7 1/2" length) Angle Chisel.	No. 73502 (7 1/2" length) Straight Chisel or No. 73574 (7" length) Blank Chisel.



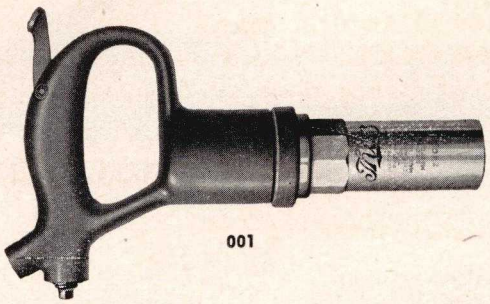
CORE BUSTERS

Size	Bore	Stroke	Length Overall	Weight Pounds	Code Word
413	1 11/16"	2"	18 3/4"	18 3/4	TRACO

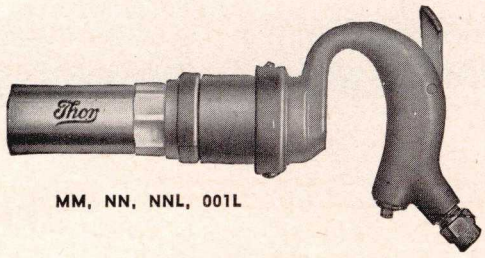
EQUIPMENT—No. 413. Retainer. Standard Nozzle accommodates 3/4" square x 2 3/4" long shank. Optional Nozzle for 3/4" hexagon-round or for 7/8" straight hexagon x 2 3/4" long shank will be furnished if specified.
(No. 61647 Reducer, 1/2" male, 3/8" female pipe thread, furnished with Size 413, if specified.)

For Chisels, see page 56.

LIGHT CHIPPING, CAULKING AND SCALING HAMMERS



001



MM, NN, NNL, 001L

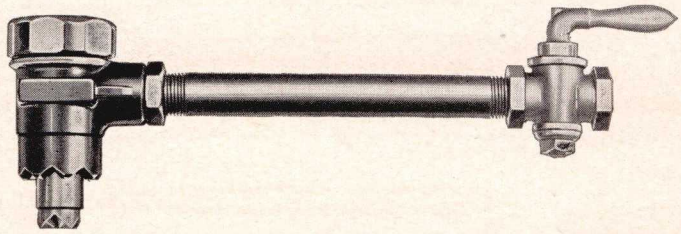
Size	Type Valve	Bore	Stroke	Length Overall	Weight Lbs.	Code Word
MM	Sleeve	3/4"	15/16"	9"	5 1/4	BALSA
NN	Sleeve	15/16"	1 1/4"	10 5/16"	7 1/4	BANAN
NNL	Sleeve	15/16"	1 1/4"	11 1/4"	7 1/4	BANNA
001	Plate	31/32"	1 1/2"	11"	6 3/4	PLABE
001L	Plate	31/32"	1 1/2"	10 7/8"	6 3/4	PLADO

EQUIPMENT

Size	Standard Equipment	Optional Equipment	Extra Equipment
MM, NN	Navy Standard Scaling Hammer Nozzle, Round or Hexagon. Type "L" Open Handle.	No. 61184 Reducer, 3/8" male, 1/4" female pipe thread, if specified.	Safety Chisel Retainer, solid or quick change type.
NNL	Navy Standard Chipper Nozzle, Round or Hexagon. Type "L" Open Handle.	No. 61184 Reducer, 3/8" male, 1/4" female pipe thread, if specified.	Safety Chisel Retainer, solid or quick change type.
001 001L	Navy Standard Chipper Nozzle, Round or Hexagon. Size 001: Closed Handle, Outside Trigger. Size 001L: Type "L" Open Handle.	No. 61184 Reducer, 3/8" male, 1/4" female pipe thread, if specified.	Safety Chisel Retainer, solid or quick change type.

For Chisels, see pages 39 and 45.

SCALING TOOL

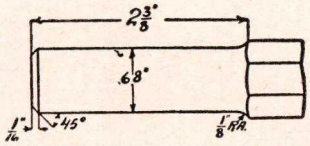


Size	Type Throttle	Bore	Stroke	Length Overall	Length of Cross-Head	Weight Lbs.	Code Word
26	Lever Cock	1" and 13/16"	1"	14"	3 1/2"	4 1/4	SCALE

Roll Type Throttle furnished at additional charge.

CHIPPING HAMMER FINISHED CHISELS, CHISEL BLANKS, STAR DRILLS

For Hammers Shown on Pages 36 and 38



STANDARD ROUND SHANK

All chipping hammer tools listed below are furnished with standard round shanks, as indicated with dimensions in the drawing at the left. To order, select chisel or blank and length desired, and specify symbol number.

Chisel Blanks
Symbol No. 2353; length 7″
Symbol No. 2359; length 9″

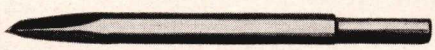
Flat Chisel
Symbol No. 2365; length 9″

Calking Chisel
Symbol No. 2371; length 9″

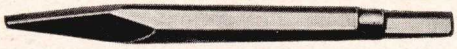
Fuller Chisel
Symbol No. 2377; length 9″

Gouge Chisel
Symbol No. 2383; length 9″

Round Nose Chisel
Symbol No. 2389; length 9″



Diamond Point Chisel
Symbol No. 2395; length 9″



Cape Chisel
Symbol No. 2401; length 9″

Beading Tool
Symbol No. 2407; length 9″

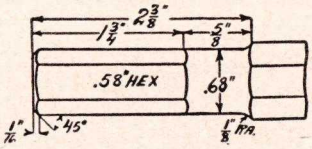
Star Drills

Symbol No.	Size	Symbol No.	Size
	8″ DRILLING DEPTH		
2433	3/8″	2449	7/8″
2437	1/2″	2453	1″
2441	5/8″	2457	1 1/8″
2445	3/4″	2461	1 1/4″
	12″ DRILLING DEPTH		
2465	3/8″	2481	7/8″
2469	1/2″	2485	1″
2473	5/8″	2489	1 1/8″
2477	3/4″	2493	1 1/4″
	18″ DRILLING DEPTH		
2497	7/8″	2508	1 1/8″
2504	1″	2512	1 1/4″

Offset Lead Calking Tools (Offset 24°)

Symbol No.	Nose Thickness	Nose Length	Nose Width	Approximate Overall Length
70369	1/4″	1 1/2″	1 1/4″	9 5/16″
70370	5/16″	1 1/2″	1 1/4″	9″
70371	3/8″	1 7/16″	1 1/4″	8 7/8″
70372	1/2″	1 5/8″	1 1/4″	8 5/16″
70373	5/8″	1 1/2″	1 1/4″	7 7/8″
70374	3/4″	1 5/16″	1 1/4″	7 1/2″

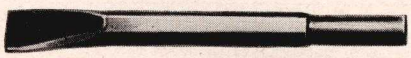
1.75 each



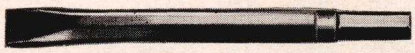
STANDARD HEXAGON SHANK

All chipping hammer tools listed below are furnished with standard hexagon shanks, as indicated with dimensions in the drawing at the left. To order, select chisel or blank and length desired, and specify symbol number.

Chisel Blanks
Symbol No. 2355; length 7″
Symbol No. 2361; length 9″



Flat Chisel
Symbol No. 2367; length 9″



Calking Chisel
Symbol No. 2373; length 9″

Fuller Chisel
Symbol No. 2379; length 9″

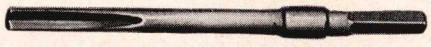
Gouge Chisel
Symbol No. 2385; length 9″

Round Nose Chisel
Symbol No. 2391; length 9″

Diamond Point Chisel
Symbol No. 2397; length 9″

Cape Chisel
Symbol No. 2403; length 9″

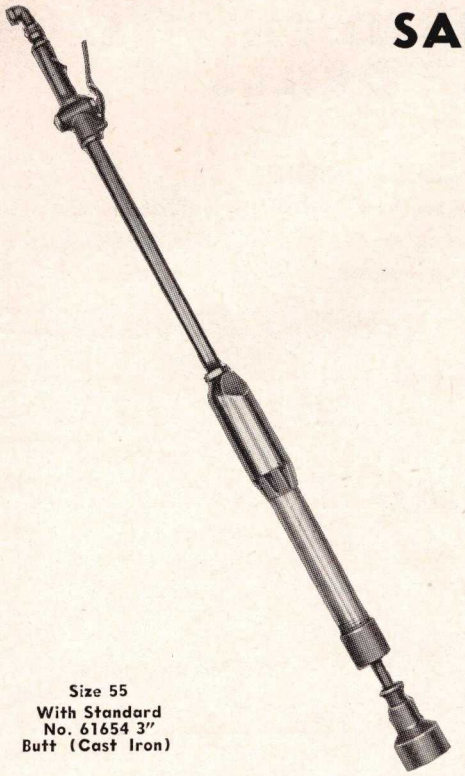
Beading Tool
Symbol No. 2409; length 9″



Star Drills

Symbol No.	Size	Symbol No.	Size
	8″ DRILLING DEPTH		
2435	3/8″	2451	7/8″
2439	1/2″	2455	1″
2443	5/8″	2459	1 1/8″
2447	3/4″	2463	1 1/4″
	12″ DRILLING DEPTH		
2467	3/8″	2483	7/8″
2471	1/2″	2487	1″
2475	5/8″	2491	1 1/8″
2479	3/4″	2495	1 1/4″
	18″ DRILLING DEPTH		
2499	7/8″	2510	1 1/8″
2506	1″	2514	1 1/4″

SAND RAMMERS
FLOOR TYPE



Size 55
With Standard
No. 61654 3"
Butt (Cast Iron)

No. 20931
3" Rubber
Tipped Butt
(Aluminum)

No. 20934
5⅜" Butt
(Aluminum)

Blower Type
Throttle
Handle
disconnected
to show
disassembly

Sizes 55 and 55C are the new floor type THOR Pneumatic Sand Rammers of improved design and performance resulting in increased power, greater work output under varying air pressure conditions, and livelier action, to more quickly complete a firm, well packed mold.

Size 55 has plunger with round rod, for operating butts. Size 55C has plunger with concave rod which is prevented from rotating, for use where mold reinforcements necessitate guiding the narrow width of a pein between closely spaced bars.

Streamlined, smooth external design, all abrupt projections eliminated, for more comfortable handling by the operator. The combination lock spring and exhaust deflector carries out this design, being of same diameter as throttle head. Bent end of spring, fitting in matching notches in throttle head and barrel, securely locks these two members together in their threaded connection.

New, plate valve mechanism delivers rapid, powerful blows under both normal and reduced air pressures, and produces operating characteristics requiring no lifting, as tool is moved about over the surface of the sand. The Rammer is self-supporting when in action.

Automatic lubrication from an oil reservoir in the throttle head insures full powered, frictionless operation and long service life. (Oil recommended, SAE-10.)

Simplified packing adjustment, to maintain continuous air seal around plunger rod and prevent entrance of sand and dirt into Rammer. On-the-job adjustment quickly effected without special wrenches or tools. Stuffing box nut is knurled and turned by hand on external threads on barrel, only a screw driver being required to lift the lock spring out of one of the series of locking grooves machined around the barrel.

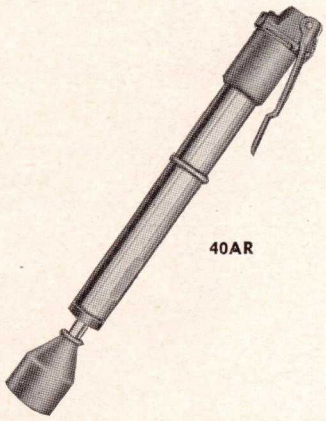
SPECIFICATIONS

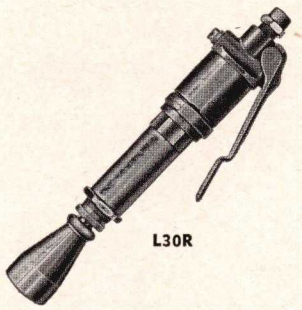
									Cast Iron		Aluminum	Aluminum Rubber Tipped			
Size	Type	Detachable Blower Handle	Type Valve	1¼" Bore x Stroke Inches	Weight Pounds	Length Overall Inches	Hose Size In.	Air Inlet Pipe Thrd. In.	No. 75816 Butt 3" Diam.	No. 62131 Pein 3" x ¾"	No. 20934 Butt 5⅜" Diam.	No. 20931 Butt 3" Diam.	No. 20928 Pein 2⅞" x 1"	Reducer When Specified	Code Word
55	Floor	Opt.	Plate	5	25	48⅝	½	½	Std.	----	Opt.	Opt.	----	Opt.	RAMAL
55C	Floor	Opt.	Plate	5	25	48⅝	½	½	Opt.	Std.	Opt.	Opt.	Opt.	Opt.	RAMAN

(Std.)—Standard Equipment is equipment shipped with tool unless otherwise specified.
(Opt.)—Optional Equipment is equipment supplied in place of standard equipment, if so specified.

SAND RAMMERS

BENCH TYPE





These THOR Sand Rammers are light, fast, easy-holding tools designed especially for ramming small flasks on jobs molded on the bench. They are also valuable in the core room. They save much time and produce much more uniform castings than is possible with hand ramming.

The L30R Rammer is supplied with 2" diameter butt as standard, although larger butts can be provided when specified.

The Size 40AR Rammer is designed for use where more power is required. It is equipped with 2½" butt as standard but larger butts can be furnished when specified.

Size With Round Plunger	Bore	Stroke	Length Overall	Weight Lbs.
L30R	31/32"	2¾"	13¾"	7¾
40AR	1 1/16"	4"	22½"	14

EQUIPMENT

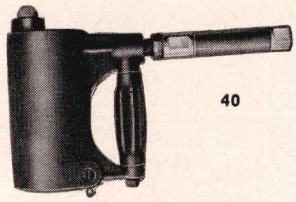
Size	Standard Equipment	Optional Equipment
L30R	No. 67389 2" Aluminum Butt.	No. 20929 2⅜" or No. 20930 3" Rubber tipped Aluminum Butt; or No. 20932 4" or No. 20933 5" Rubber tipped Aluminum Topping Off Butt. No. 61647 Reducer, ½" male, ⅜" female, pipe thread, if specified.
40AR	No. 62033 2½" Malleable Iron Butt.	No. 20929 2⅜" or No. 20930 3" Rubber tipped Aluminum Butt; or No. 20932 4" or No. 20933 5" Rubber tipped Aluminum Topping Off Butt. No. 61647 Reducer, ½" male, ⅜" female, pipe thread, if specified.

Standard Equipment means Equipment shipped with Tool unless otherwise specified.

Optional Equipment means Equipment which can be supplied in place of Standard Equipment if so specified.

HOLDERS-ON

0

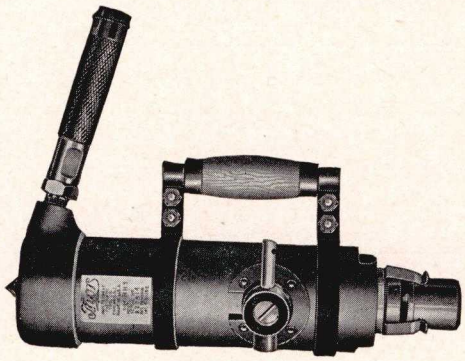

40

Size	Type	Bore	Stroke	Length Overall Including Set	Distance from Center to Outside	Weight Lbs.	Code Word
0	Extra Short	3 1/8"	1 3/8"	4 1/8"	1 3/4"	10	BIGEA
5	Short	3 1/8"	2 3/16"	9 3/4"	1 3/4"	14 1/2	BIGIN
10	Long	3 1/8"	3 11/16"	10 1/2"	1 3/4"	20 1/2	BIFER
20	Long	3 1/8"	3 11/16"	11"	1 3/4"	21 1/4	BIFID
30	Close Quarter	3 1/2"	3 17/32"	11"	1"	23 1/2	BIFLA
40	Close Quarter	3 1/2"	3 17/32"	11"	1"	24 1/2	BIFOL

STANDARD EQUIPMENT

Size	
10, 30	Stop Cock and Side Handle.
20, 40, 5 and 0	Twist Throttle. Side Handle on No. 40. The No. 0 Holder-On, because of its extreme shortness, requires a special set, one of which is furnished to your cupping as specified.

HAMMER-TYPE HOLDERS-ON



Size	Bore	Stroke	Length Without Center or Set	Distance from Center of Set to Side of Holder-On	Capacity Rivets	Weight Lbs.	Code Word
HH-5 using the 5" Riveter	1 1/16"	5"	12 3/4"	2 1/16"	3/4"	30	BIXHO
HH-9 using the 9" Riveter	1 1/16"	9"	17 3/4"	2 1/16"	1 1/4"	35	BIXEC

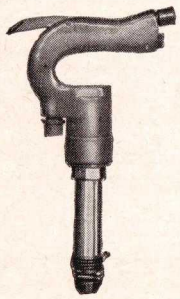
The stroke of the Holder-On in all of the above sizes is 3 1/4". No. 61647 Reducer, 1/2" male, 3/8" female pipe thread, if specified.

SLOW HITTING EXTRA LIGHT RIVETING HAMMERS

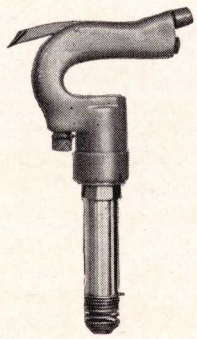
SLEEVE VALVE TYPE

02S

03S



03SS



04S

Size	Type Throttle	Bore	Stroke	Length Overall	Weight Lbs. With Handle of Aluminum	Steel	Code Word
O2S	Grip	9/16"	2"	10"	3 1/4	4 1/2	BABIC
2S	Offset	9/16"	2"	7 1/8"	3 1/8	4 5/16	BABIF
O3S	Grip	9/16"	3"	11"	3 1/2	4 3/4	BABEY
3S	Offset	9/16"	3"	8 1/8"	3 3/8	4 9/16	BABEV
O3SS	Grip	9/16"	3 1/2"	11 1/2"	3 5/8	4 7/8	BABUJ
3SS	Offset	9/16"	3 1/2"	8 5/8"	3 1/2	4 11/16	BABUP
O4S	Grip	9/16"	4"	12"	3 3/4	5	BABEZ
4S	Offset	9/16"	4"	9 1/8"	3 5/8	4 13/16	BABEX

Aluminum handle is standard; steel will be furnished if specified. For illustrations of handle types for these hammers, see page 44.

For Rivet Sets, see page 45.

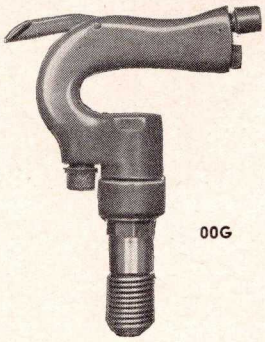
EQUIPMENT

Standard Equipment

Screw on Safety Retainer, Air Regulator. Nozzle to take No. 2 Parker taper shank; or No. 2 round or hexagon shank when so specified.

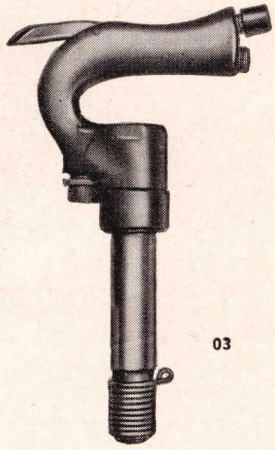
FAST HITTING EXTRA LIGHT RIVETING HAMMERS

PLATE VALVE TYPE



00G

0GR



03

Size	Type Throttle	Bore	Stroke	Length Overall	Weight Lbs. With Handle of Aluminum	Steel	Code Word
00G	Grip	5/8"	1"	9"	2 11/16	3 7/8	BABEB
00B	Button	5/8"	1"	7 13/16"	....	2 3/4	BABEM
0G	Grip	3/4"	1"	8 5/8"	2 11/16	4 1/2	BABED
0GR	Grip	3/4"	1"	9 1/2"	3 5/16	5 1/16	BABEJ

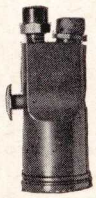
EQUIPMENT

Size	Standard Equipment
00G, 00B	Air Regulator. Screw-On Safety Retainer. Nozzle for No. 2 Parker Taper Shank. Nozzle to take No. 2 Round or Hexagon Shank furnished when so specified.
0G	Air Regulator. Nozzle for No. 3 or No. 5 Round or Hexagon Shank.
0GR	Air Regulator. THOR No. 64848 Safety Retainer. Nozzle for No. 5 Round or Parker Taper Shank.

For 00G, 0G, 0GR hammers, aluminum handle is standard; steel will be furnished if specified. Size 00B furnished with steel handle.

For Rivet Sets, see page 45.

Grip Handle



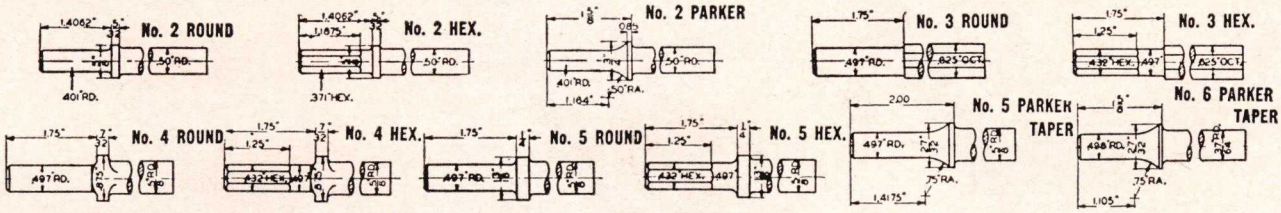
Button Handle

Offset Handle

RIVET SETS AND CHISELS—FINISHED AND BLANK

For Use with THOR Extra Light Riveting and Scaling Hammers

To select chisel or rivet set blank required, locate size hammer to be used in table below. Determine shank type number and refer to corresponding number in table below. Then select symbol number for blank or finished rivet set or chisel desired.



No. 2 ROUND, No. 2 HEXAGON or No. 2 PARKER TAPER shank for use with following hammers: 00B, 00F, 00G, 00L, 00P; 03, 03B, 03F, 03L, 03P; 04, 04B, 04F, 04L, 04P; 2S, B2S, L2S, 02S, P2S; 3ZB, 3ZG, 3ZL, 3ZO, 3ZP; 3S, B3S, L3S, 03S, P3S; 3SS, B3SS, L3SS, 03SS, P3SS; 4S, B4S, L4S, 04S, P4S.

No. 3 ROUND or No. 3 HEXAGON shank for use with following hammers WITHOUT retainers: MM, NN, 0F, 0G, 0L, 0P.
(For Rivet Sets and for Parker Taper Shank use No. 5 Type.)

No. 4 ROUND or No. 4 HEXAGON shank for use with following hammers with Arrow retainer: MM, NN, 0FR, 0GR, 0LR, 0PR.

No. 5 ROUND, No. 5 HEXAGON or No. 5 PARKER TAPER shank for use with the following hammers with THOR retainer: 0FR, 0GR, 0LR, 0PR.

No. 6 PARKER TAPER shank for use with following hammers: 6S, B6S, L6S, 06S, P6S; 8S, B8S, L8S, 08S, P8S.

FINISHED RIVET SETS

Cupped as specified—Button, Round, Mushroom, Brazier or Flat Head. SPECIFY RIVET SIZE AND STYLE of CUPPING

Type	Symbol No.	Rivet Size
No. 2 Round	70905	Up to 1/4"
No. 2 Parker Taper	*70907	Up to 1/4"
	**70908	Up to 5/32"
	**70909	3/16" to 1/4"
No. 5 Round	70912	Up to 1/4"
No. 5 Parker Taper	*70914	Up to 1/4"
	**70915	Up to 5/32"
	**70916	3/16" to 1/4"
No. 6 Parker Taper	*70917	Up to 1/4"
	**70918	Up to 5/32"
	**70919	3/16" to 1/4"

*Button head cupping only.

**All cuppings except button head.

Finished Sets for 5/16" rivets and over also available.

RIVET SET BLANKS

Type	No.	Lgth.	Standard Stock Diam.
No. 2 Round	2340	4"	1/2"
	♦71210	4"	1/2"
No. 2 Parker Taper	64120	4"	1/2"
	♦72860	4"	1/2"
No. 5 Round	64840	5"	5/8"
	♦72863	5"	5/8"
No. 5 Parker Taper	66939	5"	5/8"
	♦72865	5"	5/8"
No. 6 Parker Taper	68364	4"	37/64"
	♦72866	4"	37/64"

♦ Rivet set blanks hardened for flush rivets.
(Std. Retainers accommodate standard diameters only.)

MAXIMUM CUPPING SIZES ACCOMMODATED BY STOCK DIAMETERS

Cupping Style	1/2" Dia.	37/64" Dia.	5/8" Dia.	3/4" Dia.
Button Head	3/16"	1/4"	1/4"	5/16"
Round Head	3/16"	7/32"	1/4"	5/16"
Mushroom Head	3/16"	7/32"	1/4"	5/16"
Brazier Head	5/32"	3/16"	7/32"	1/4"
Flat Head	3/16"	7/32"	1/4"	5/16"

(3/8" Cupping size requires special 1 1/8" stock diam.)

FLAT FINISHED CHISELS

Type	Symbol No.	Length & Width
No. 2 Round	2338	7 3/8" x 1/2"
No. 2 Hexagon	2339	7 3/8" x 1/2"
No. 2 Parker Taper	69062	7 3/8" x 1/2"
No. 3 Round	2344	7 1/2" x 5/8"
No. 3 Hexagon	2345	7 1/2" x 5/8"
No. 4 Round	2349	8 3/4" x 5/8"
No. 4 Hexagon	2350	8 3/4" x 5/8"
No. 5 Round	64841	7 1/2" x 5/8"
No. 5 Hexagon	64842	7 1/2" x 5/8"
No. 5 Parker Taper	69020	7 1/2" x 5/8"
No. 6 Parker Taper	69022	7 1/2" x 9/16"

CHISEL BLANKS

Type	Symbol No.	Length
No. 2 Round	2336	7"
No. 2 Hexagon	2337	7"
No. 2 Parker Taper	69061	7"
No. 3 Round	2342	7"
No. 3 Hexagon	2343	7"
No. 4 Round	2347	8"
No. 4 Hexagon	2348	8"
No. 5 Round	64654	7"
No. 5 Hexagon	64655	7"
No. 5 Parker Taper	69019	7"
No. 6 Parker Taper	69021	7"

THOR Rivet Sets and Chisels are made of a special alloy steel, carefully heat treated to withstand severe service. Standard shanks are shown here. We can supply them finished to your specifications in sizes and shapes as shown and in any cuppings desired. To order finished rivet sets specify symbol number, size of rivet, and also type of cupping. (For kinds and dimensions of cuppings refer to table below.)

STANDARD CUPPINGS OF RIVET SETS

(When ordering special cupping specify A and B dimensions, also radius R)

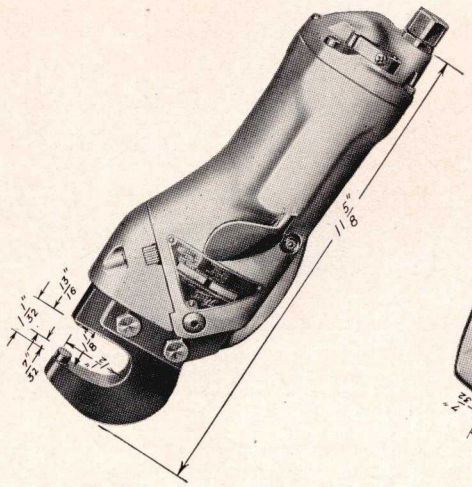
Cupping Type	Dimension	FOR RIVET SIZE 1/16"	3/32"	1/8"	5/32"	3/16"	7/32"	1/4"
BUTTON HEAD	A	.125"	.179"	.240"	.290"	.350"	.410"	.470"
	B	.032"	.060"	.078"	.102"	.125"	.149"	.170"
	C	.185"	.24"	.3125"	.365"	.43"	.50"	.5625"
	R	.077"	.096"	.131"	.154"	.185"	.215"	.247"
ROUND HEAD	A	.140"	.207"	.270"	.335"	.400"	.455"	.535"
	B	.032"	.060"	.078"	.102"	.125"	.149"	.170"
	C	.20"	.27"	.3437"	.40"	.48"	.520"	.61"
	R	.092"	.120"	.156"	.188"	.222"	.248"	.295"

Cupping Type	Dimension	FOR RIVET SIZE 1/16"	3/32"	1/8"	5/32"	3/16"	7/32"	1/4"
BRAZIER HEAD	A	.1562"	.234"	.3125"	.3906"	.4687"	.5468"	.625"
	B	.017"	.032"	.047"	.063"	.078"	.094"	.110"
	C	.21"	.30"	.375"	.4687"	.52"	.625"	.7031"
	R	.188"	.23"	.283"	.334"	.391"	.444"	.50"
MUSHROOM HEAD	A	.145"	.207"	.270"	.332"	.395"	.458"	.520"
	B	.029"	.043"	.063"	.082"	.095"	.117"	.136"
	C	.21"	.267"	.33"	.40"	.465"	.52"	.60"
	R	.125"	.1875"	.25"	.3125"	.375"	.4375"	.50"
	E	.0312"	.0468"	.0625"	.0781"	.0937"	.1093"	.125"
FLAT HEAD	A	.135"	.200"	.265"	.3275"	.390"	.455"	.520"
	B	.015"	.0225"	.035"	.0475"	.060"	.0725"	.085"
	C	.20"	.265"	.33"	.39"	.46"	.52"	.60"

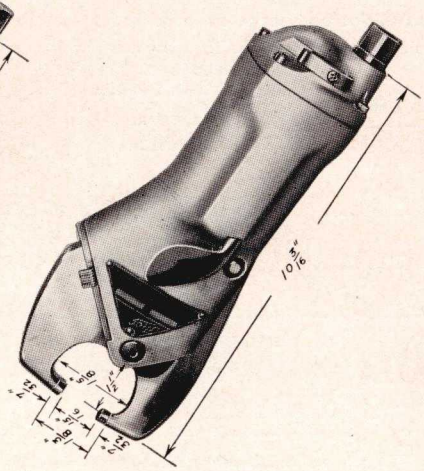
Dimensions A and C: Tolerance +.005". Dimension B: Tolerance —.003", except for 1/16" brazier and flat head cupping.

RIVET SQUEEZER

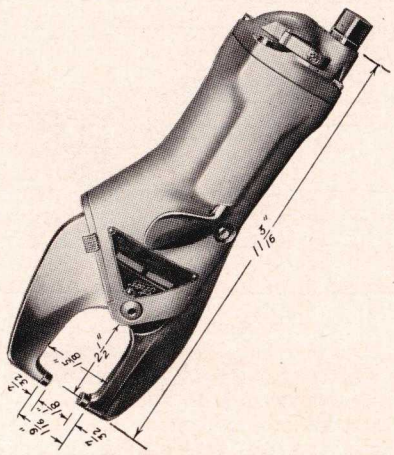
No. PRS-10



With "C" Type Yoke



With 1½" Alligator Jaws



With 2½" Alligator Jaws

The PRS-10 THOR Pneumatic Rivet Squeezer is the most powerful machine of its size on the market. Having a rated capacity for driving 1/8" aluminum, Dural or soft steel rivets, it also can be used for dimpling, pressing and similar operations. It is available in three styles — for "C" type yoke and with alligator jaws of 1½" or 2½" reach.

Its balance in conjunction with properly located throttle lever, and its finely graduated control, enable the operator to properly align the plunger or anvils over the rivet before applying the final squeezing stroke.

The design is streamlined; completely enclosed; air-actuated power and return strokes eliminating springs; full roller bearing construction. No strains are transmitted to the aluminum casing, which serves only as a locating medium and housing for the power transmitting mechanism.

The pressure regulator permits the closest desirable adjustment of power to handle varying diameters and lengths of rivets. The stroke regulator limits the travel of the plunger or jaws when needed.

SPECIFICATIONS

Type	Capacity Cold Rivets	Stroke	Length Overall	Weight Pounds	Gap	Reach	Code Word
"C" Type Less Yoke	1/8" Aluminum, Dural or Steel	1/2"	9 3/8"	4	------	------	COMPB
"C"Type With Yoke	1/8" Aluminum, Dural or Steel	1/2"	11 5/8"	5	1 1/8"	1 1/2"	COMPC
1 1/2" Alligator	1/8" Aluminum, Dural or Steel	1/2"	10 3/16"	4	1 5/8"	1 1/2"	COMPD
2 1/2" Alligator	1/8" Aluminum, Dural or Steel	5/8"	11 3/16"	4 3/4	1 5/8"	2 1/2"	COMPF

EQUIPMENT

Less "C" Type Yoke: **STANDARD:** Stroke regulator. Pressure regulator. "C" Yoke Frame, 3/8" diameter yoke bolt holes with 1 5/16" spacing. Two each yoke bolts and nuts.
EXTRA: "C" Yoke, 1 1/8" gap, 1 1/2" reach, 9/16" thick, including one standard No. 68577, 7/32" height, 3/8" diameter quick change anvil (hard), or optional anvil per listing below; plunger spring and 11 3/16" long plunger—solid or with 3/16" diameter hole to accommodate quick change anvils, if specified.

With "C" Type Yoke: **STANDARD:** Stroke regulator. Pressure regulator. "C" Yoke, 1 1/8" gap, 1 1/2" reach, 9/16" thick, 1 5/16" spacing between 3/8" bolt holes, 11 3/16" long solid plunger, and one standard No. 68577 7/32" height, 3/8" diameter quick change anvil (hard), or optional anvil per listing below; (NOTE: Plunger and plunger spring mounted in yoke).
OPTIONAL: Plunger with 3/16" diameter hole to accommodate anvils.

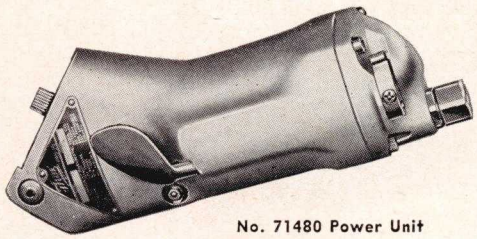
Alligator Type: Stroke regulator. Pressure regulator. Two standard No. 68577 7/32" height, 3/8" diameter quick change anvils (hard), or optional anvils per listing below.

NOTE: 1/4" I. D. Air Hose recommended for use with this tool.

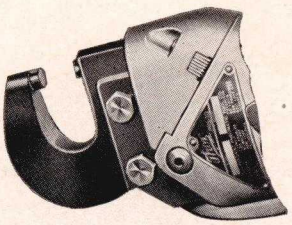
Anvils (Optional):
No. 71652, 1/4" height, 3/8" diam. (hard)
No. 71653, 3/8" height, 3/8" diam. (hard)
No. 72072, 7/32" height, 7/16" diam. (hard)
No. 72073, 1/2" height, 7/16" diam. (soft)
No. 72074, 1/2" height, 3/8" diam. (soft)

INTERCHANGEABLE UNITS

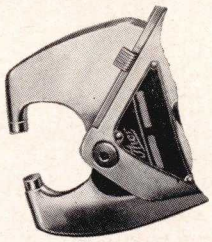
No. PRS-10 Rivet Squeezer



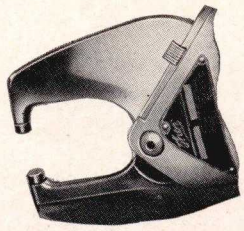
No. 71480 Power Unit



No. 71481 "C" Yoke Unit



No. 71482 1½" Alligator Jaw Unit



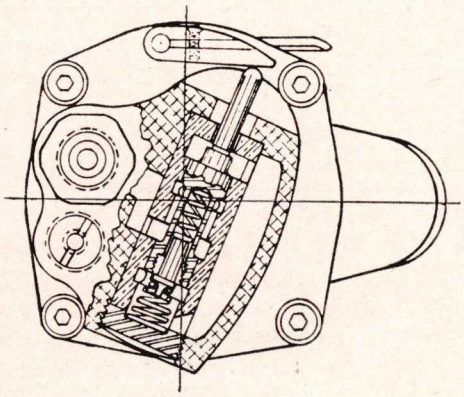
No. 71483 2½" Alligator Jaw Unit

The No. PRS-10 THOR Rivet Squeezer further offers the exclusive feature of interchangeability between the "C" type yoke head and the alligator jaws. A quick transfer can be made from "C" type head to alligator jaws, or from one size to another size of alligator jaws, since all units are interchangeable in the power unit.

CONSTRUCTION FEATURES

STROKE REGULATOR

The stroke regulator is a simple piece of flat steel manipulated with the thumbnail and held in desired position by a thrust spring and ball. It is located in the side of the main housing at its juncture with the housing cover or cover plate. When in the inward position, the stroke regulator engages a slot in the side of the "C" type cam or the moveable alligator jaw, so that the plunger or moving anvil recedes only one-half its usual travel from its extreme extended position. Thus, when squeezing a series of rivets of the same size, after a rivet is squeezed the plunger or anvil opens only enough to clear and align the squeezer over the next rivet, thereby greatly speeding up this portion of the operation.



Throttle Valve

PRESSURE REGULATOR

The pressure regulator valve, in the cylinder cap, is a steel ball held on its seat by a spring and threaded cap. This cap is slotted for a screwdriver, and when turned right hand increases, and when turned left hand decreases the tension under which the ball is held on its seat. This valve is acted upon by the live air for the power stroke of the squeezer. Consequently, if reduced power is required to properly squeeze a given rivet, the spring tension against the ball valve can be reduced, so that the valve will be lifted from its seat and excess of air pressure will be blown off through the regulator valve cap, limiting the power of the squeezing stroke.

THROTTLE VALVE

The throttle valve, also located in the cylinder cap, is of the graduated type and, as operator desires, may be opened quickly or slowly. This effect is obtained by providing the valve bushing with varied size openings over which the valve surfaces pass, and using two throttle valve springs of unequal tension. The throttle lever may be partly depressed, which compresses the lighter tensioned spring and the valve opens only the minor sized ports. When the throttle lever is fully depressed, the heavier tensioned spring is compressed and the valve opens the full power ports. Thus we have the feature of full throttle control over a slow initial locating or aligning movement of the plunger or anvil, preparatory to application of the high pressure portion of the squeezing stroke.

The throttle valve is double-acting in relation to the movement of the piston in both power and return strokes. In other words, each direction of movement is actuated by compressed air. Thus, the full effect of the air pressure behind the piston is delivered to the power transmission parts, since the piston in its power stroke is not required to overcome spring tension or any other mechanical means for returning the piston after the power stroke.

RIVET SQUEEZER

For 5/32" Steel; 3/16" Dural and Aluminum Rivets

The THOR PRS-1 Rivet Squeezer is particularly adapted for service where large numbers of small rivets are used and rapid production requires a light, compact tool that is powerful and easy to handle. Aircraft and automobile manufacturers, sheet metal fabricators and similar industries can make substantial reductions in assembly time and cost by the use of this fast, efficient tool. These reductions are effected by the exclusive Thor features which facilitate quick adaptation of the Thor Rivet Squeezer to a variety of jobs by simple methods of changing yokes and plungers and by simple means of making adjustments to regulate pressure and stroke.

SPECIFICATIONS

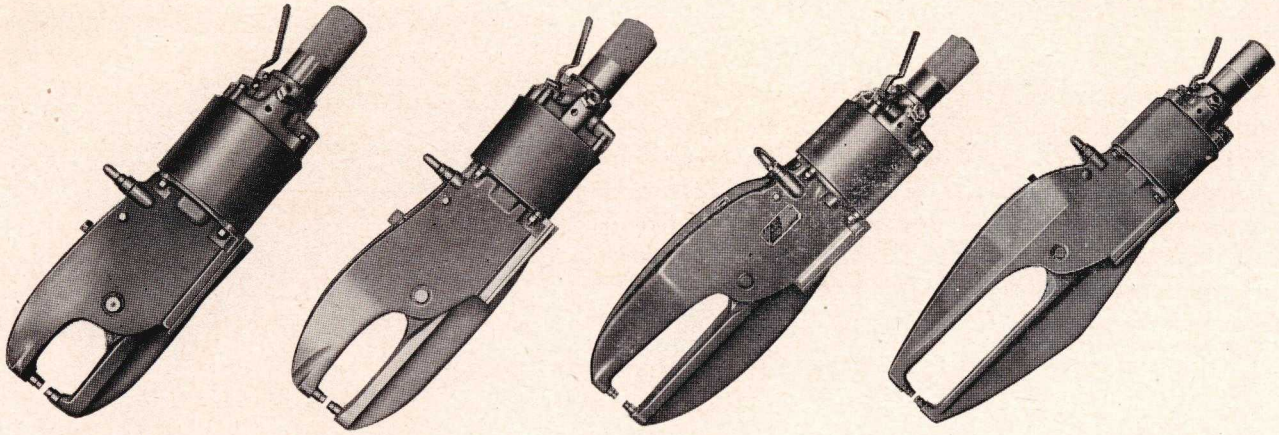
Size	Capacity Cold Rivets	Plunger Stroke	Length Overall	Weight Pounds	Code Word
PRS-1	5/32" Steel 3/16" Dural 3/16" Aluminum	1/2"	12" Less Yoke	9 1/2 Less Yoke	COMPA

EQUIPMENT

Standard Equipment . . . Lever throttle. One 7/16" diameter, 2 7/8" long Plunger—solid or with 3/16" diameter hole to accommodate quick change anvils, if specified. Quick-Change Plunger Holder. Pressure Regulator. Stroke Regulator. Two each yoke bolts and nuts. Yoke Frame with No. 1 spacing (1 5/8" between bolt holes) is standard. Yoke Frame with No. 2 spacing (2-1/16" between bolt holes) can be furnished, if specified. (Yoke Frame tapped with two 1/4" x 20 holes. Head tapped with one 5/16" x 18 hole for stationary mounting bracket.)

Extra Equipment . . . Yoke with adjustable anvil, 3/4" adjustment, 1 1/4" gap, 2" reach. Special length Plunger.

RIVET SQUEEZERS WITH ALLIGATOR JAWS



PRS-1 Rivet Squeezer with No. 71191 3″ Alligator Jaw

PRS-1 Rivet Squeezer with No. 71192 5″ Alligator Jaw

PRS-1 Rivet Squeezer with No. 71193 7″ Alligator Jaw

PRS-1 Rivet Squeezer with No. 71194 9 1/8″ Alligator Jaw

For applications where it is necessary to reach in considerably beyond the edge of the sheet and still clear obstructions, Alligator Jaws have been designed for use with the Thor PRS-1 Rivet Squeezer. These Jaws are integral with the tool, making one compact unit. Four sizes of Alligator Jaws are available as standard to provide for most riveting jobs of this nature.

The Alligator Jaw with 3″ reach (measured from the center of anvil) has 1 3/4″ clearance between the jaw and arm in the closed position. With the standard 7/32″ height anvils, the clearance between the anvils in open position may be adjusted to a maximum of 1 1/2″.

The Alligator Jaw with 5″ reach has 1 5/8″ clearance between jaw and arm in closed position, and may be adjusted to give 1 3/4″ clearance between the anvils in open position, with standard 7/32″ height anvils.

The Alligator Jaw with 7″ reach has 1 3/4″ clearance between jaw and arm in closed position. With standard 7/32″ height anvils, the clearance between anvils in open position may be adjusted to a maximum of 2 1/16″.

The Alligator Jaw with 9 1/8″ reach has 2 1/4″ clearance between jaw and arm in closed position. With standard 7/32″ height anvils, the clearance between the anvils in open position may be adjusted to a maximum of 2 11/16″.

SPECIFICATIONS

No. PRS-1 Pneumatic Rivet Squeezer with Alligator Jaws

With Alligator Jaw No.	Reach	Capacity Cold Rivets	Length Overall	Weight Pounds	Gap	Height	Code Word
71191	3″	3/16″ Dural, Aluminum or Steel	17 11/16″	19 1/4	1 3/4″	5 1/4″	COMPV
71192	5″	5/32″ Dural, Aluminum or Steel	20 3/4″	22 1/4	1 5/8″	6 1/8″	COMPW
71193	7″	5/32″ Dural, Aluminum or Steel	23″	26	1 3/4″	6 5/8″	COMPX
71194	9 1/8″	1/8″ Dural, Aluminum or Steel	25″	26	2 1/4″	7 1/8″	COMPY

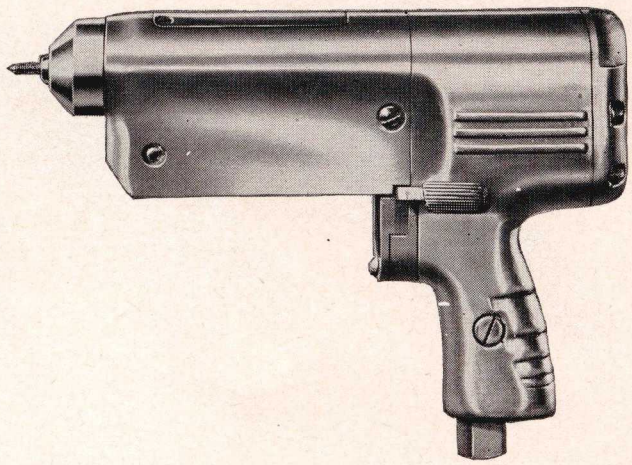
EQUIPMENT

STANDARD—Two standard No. 68577, 7/32″ height, 3/8″ diameter Quick-Change Anvils (hard), or optional anvils per listing below. Suspension hook. Automatic stroke regulator. Pressure Regulator. (Jaws have 3/16″ diameter through holes to accommodate shanks of quick change anvils and rivet sets.)

Anvils (optional): No. 71652, 1/4″ height, 3/8″ diam. (hard)
No. 71653, 3/8″ height, 3/8″ diam. (hard)
No. 72072, 7/32″ height, 7/16″ diam. (hard)
No. 72073, 1/2″ height, 7/16″ diam. (soft)
No. 72074, 1/2″ height, 3/8″ diam. (soft)

RIVNUT DRIVER

With the development of the THOR "Auto Riv-Driver," installation of Rivnuts (manufactured by B. F. Goodrich Co.) is made 6 to 8 times faster. Application becomes completely automatic, accurate and positive. Because of the increased speed and new simplicity of installation with the THOR "Auto Riv-Driver," new uses for Rivnuts in all types of assembly are made practical for production.



SPECIFICATIONS

Size	Aluminum Rivnut Capacity		Speed, R.P.M.		Length Overall	Weight Pounds	Spindle Offset	Hose Size	Hose Connection Pipe Thread	Code Word
	Standard	Optional	Forward	Reverse						
RN	#6x32	# 8x32 #10x32	1000	2000	9 1/2"	4 1/4	7/8"	1/4"	1/4"	AURIV

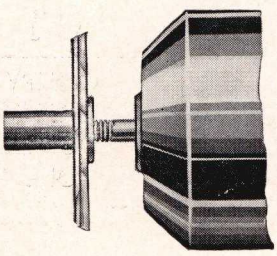
EQUIPMENT

STANDARD: One mandrel for #6x32 Rivnut, Allen wrench, Plunger cap remover, 8-ft. length 1/4" hose complete with hose nipples and clamps (No. 70014 Hose nipple at tool end), and carrying case.

OPTIONAL: One mandrel for #8x32 Rivnut or one mandrel for #10x32 Rivnut in place of mandrel for #6x32 Rivnut.

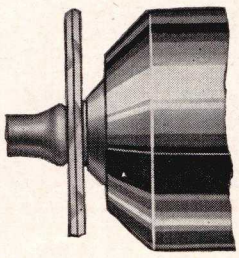
POSITIVE IN EVERY ACTION!

A single Trigger operates a four-way cylindrical Rotary Throttle Valve.



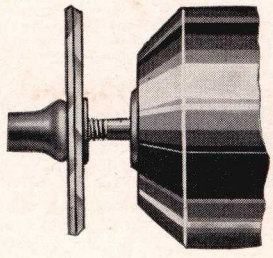
1st Cycle of Trigger Action

RUNNING IN—Press trigger all the way down. Release trigger. Inserted into head of Rivnut, mandrel runs in—stopping forward motion when head of Rivnut touches the anvil of the driver.



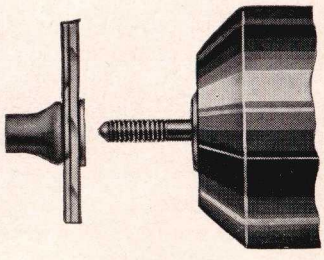
2nd Cycle of Trigger Action

UPSETTING RIVNUT — Press trigger all the way down. Release trigger. With mandrel run in, Rivnut is upset by automatic back-up pull of Driver. A light indicator flashes only when Rivnut is properly upset on "blind" side.



3rd Cycle of Trigger Action

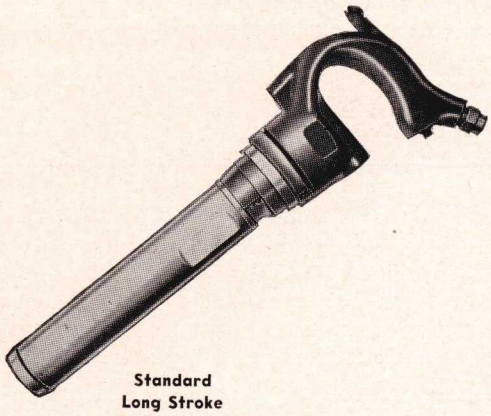
BACKING-OUT — Press trigger all the way down. Release trigger. Mandrel automatically reverses, backing out of Rivnut completely. No manual adjustment by operator is necessary to reverse the tool.



4th Cycle of Trigger Action

STOPPING—Press trigger all the way down. Release trigger. The fourth cycle is the neutral valve position which stops all action of the tool and completes driving cycle.

RIVETING HAMMERS



Standard
Long Stroke
("L" Handle)

One-Piece
Long Stroke
("B" Handle)

STANDARD LONG STROKE TYPE

Size	Bore	Stroke	Capacity Rivets	Length Overall	Weight Lbs.	Code Word With "L" Handle	Code Word With "A" Handle	Code Word With "B" Handle
43	1 1/16"	4"	5/8"	14 1/4"	17	FORTE	FORRY	FORTS
53	1 1/16"	5"	3/4"	15 1/2"	18	THRDE	THRTA	THRSO
63	1 1/16"	6"	7/8"	17 1/2"	20 1/4	THRED	THRAT	THRSE
83	1 1/16"	8"	1 1/8"	19 1/2"	23 1/2	THREO	THRIT	THURS
93	1 1/16"	9"	1 1/4"	20 1/2"	24 1/4	THROE	THRER	THURV

By adding letter "B" to size above hammers will be furnished with bridge type barrel which prevents piston from shooting out.

STANDARD EQUIPMENT: "L" Type, Open Handle.

OPTIONAL EQUIPMENT: "A" Closed Handle, Outside Trigger.
"B" Closed Handle, Inside Trigger.
No. 2005 Reducer, 1/2" male, 3/8" female pipe thread.

EXTRA EQUIPMENT—THOR Heavy Duty Hex Retainer to accommodate THOR Heavy Duty Hex Type Rivet Buster Chisels and Knock-Out Punches, furnished at extra charge. Rivet set clip.

NOTE—Above specifications on length and weight are for hammers equipped with "L" Type Open Handle. With "A" Type Closed Handle: Length 1/2" more and weight 7/8 pound more than indicated. With "B" Type Closed Handle: Length 1/2" more and weight 3/4 pound more than indicated.

HEAVY DUTY TYPE

83-H	1 1/16"	8"	1 1/8"	20 1/2"	25	BAHEL	BAHEA	BAHEB
93-H	1 1/16"	9"	1 1/4"	21 1/2"	27 1/2	BAKVL	BAKVA	BAKVB
83-X	1 3/16"	8"	1 3/8"	21 1/2"	25	BAXUL	BAXUA	BAXUB

STANDARD EQUIPMENT: "L" Type, Open Handle.

OPTIONAL EQUIPMENT: "A" Closed Handle, Outside Trigger.
Heavy Duty "B" Closed Handle, Inside Trigger.
No. 2005 Reducer, 1/2" male, 3/8" female pipe thread.

EXTRA EQUIPMENT—THOR Heavy Duty Hex Retainer to accommodate THOR Heavy Duty Hex Type Rivet Buster Chisels and Knock-Out Punches. Rivet set clip.

ONE PIECE LONG STROKE TYPE

60	1 1/16"	6"	7/8"	17 1/2"	20 7/8	.....	.....	BARLI
80	1 1/16"	8"	1 1/8"	19 1/2"	22 7/8	.....	.....	BAROI
90	1 1/16"	9"	1 1/4"	20 1/2"	23 1/2	.....	.....	BANEI
90-S	1 1/8"	9"	1 3/8"	20 1/2"	23 1/8	.....	.....	BEADI

EXTRA EQUIPMENT—THOR Heavy Duty Hex Retainer to accommodate THOR Heavy Duty Hex Type Rivet Buster Chisels and Knock-Out Punches. Rivet set clip.

STANDARD EQUIPMENT: "B" Closed Handle, Inside Trigger.

OPTIONAL EQUIPMENT: No. 2005 Reducer, 1/2" male, 3/8" female pipe thread.

See Pages 52 and 53 for Rivet Sets.

DIMENSIONS OF RIVET SETS
USED WITH LONG STROKE RIVETING HAMMERS

Nos. 43, 50-S, 53, 60, 63, 80, 83, 83-H, 83-X, 90, 90-S, 93, 93-H.
(Sets shown on opposite page)

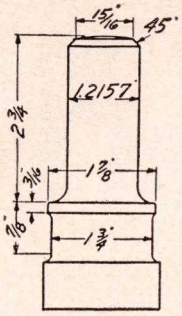
DIAMETER OF RIVETS

Type of Cupping		5/16	3/8	7/16	1/2	9/16	5/8	11/16	3/4	13/16	7/8	15/16	1	1 1/16	1 1/8	1 3/16	1 1/4	1 5/16	1 3/8	1 7/16	1 1/2
BUTTON HEAD	A	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	2	2	2 1/8	2 1/4	2 3/8	2 3/8	2 1/2	2 5/8	2 3/4	2 13/16	3	3
	B	1/2	19/32	11/16	25/32	7/8	1	1 3/32	1 3/16	1 9/32	1 3/8	1 15/32	1 19/32	1 11/16	1 3/4	1 7/8	2	2 1/16	2 3/16	2 1/4	2 5/16
	C	1/4	5/16	23/64	13/32	29/64	33/64	9/16	39/64	21/32	45/64	3/4	13/16	55/64	57/64	31/32	1 1/32	1 1/16	1 1/8	1 5/32	1 3/16
	D	13/64	15/64	9/32	5/16	11/32	13/32	7/16	31/64	33/64	35/64	19/32	41/64	43/64	45/64	3/4	51/64	53/64	7/8	29/32	59/64
	E	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 3/4	4 3/4	4 7/8	4 7/8	5	5	5 1/8	5 1/8	5 3/8	5 5/8
LIVER-POOL	A		1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	2	2	2 1/8	2 3/8	2 3/8	2 1/2	2 3/4	2 3/4	3				
	B		3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/8	2 1/4	2 3/8	2 1/2				
	C		25/32	29/32	1 1/32	1 5/32	1 9/32	1 27/64	1 9/16	1 23/32	1 7/8	2	2 1/8	2 1/4	2 3/8	2 9/16	2 5/8				
	D		3/32	7/64	1/8	9/64	5/32	11/64	3/16	13/64	7/32	15/64	1/4	17/64	9/32	19/32	5/16				
	E		4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 3/4	5	5	5	5 1/4	5 1/4	5 5/8				
PAN HEAD	A		1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	2	2	2 1/8	2 1/8	2 1/4	2 1/4	2 3/8				
	B		37/64	43/64	49/64	55/64	61/64	1 3/64	1 9/64	1 3/16	1 15/64	1 21/64	1 27/64	1 31/64	1 9/16	1 21/32	1 3/4				
	C		3/8	7/16	1/2	9/16	5/8	11/16	3/4	13/16	7/8	15/16	1	1 1/16	1 1/8	1 3/16	1 1/4				
	D		1/4	9/32	5/16	11/32	3/8	13/32	7/16	29/64	15/32	1/2	17/32	9/16	19/32	5/8	21/32				
	E		4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 3/4	4 3/4	4 7/8	4 7/8	5				
CONE HEAD	A	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 7/8	2	2	2	2 1/4	2 1/4	2 1/4	2 1/4	2 1/2	2 1/2				
	B	35/64	41/64	3/4	55/64	31/32	1 3/32	1 3/16	1 19/64	1 13/32	1 17/32	1 5/8	1 47/64	1 27/32	1 15/16	2 1/16	2 5/32				
	D	15/64	9/32	21/64	3/8	27/64	15/32	33/64	9/16	5/8	21/32	45/64	3/4	51/64	53/64	57/64	59/64				
	E	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 3/4	4 3/4	4 3/4	4 3/4	5	5				
STEEPLE HEAD	A	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	2	2	2 1/4	2 1/4	2 1/4	2 1/2	2 1/2	2 3/4	3	3				
	B	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/8	2 1/4	2 3/8	2 1/2				
	D	5/16	3/8	7/16	1/2	9/16	5/8	11/16	3/4	13/16	7/8	15/16	1	1 1/16	1 1/8	1 3/16	1 1/4				
	E	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 7/8	4 7/8	4 7/8	5	5	5 1/4	5 5/8	5 5/8				
FLUSH	A		7/8		1		1 1/8		1 1/4		1 3/8		1 1/2		1 5/8		1 3/4				
	E		6		6		6		6		6		6		6		6				
AUTO	A	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2														
	B	1/2	19/32	11/16	25/32	7/8	1														
	C	1/4	5/16	23/64	13/32	29/64	33/64														
	D	13/64	15/64	9/32	5/16	11/32	13/32														
	E	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2														

DIMENSION CODE

A—Diameter of rivet set head
B—Diameter of cupping
C—Radius of cupping (Button, Liverpool Head and Auto Set) Bottom diameter of cupping (Pan Head)
D—Depth of cupping
E—Overall length

For Rivet Set symbol numbers, see page 53.



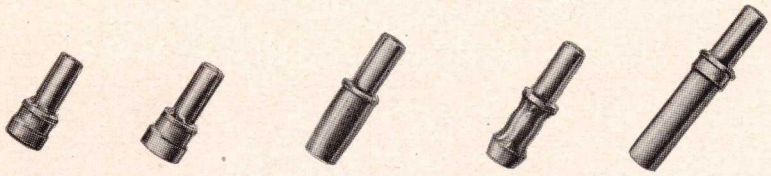
Standard Shank

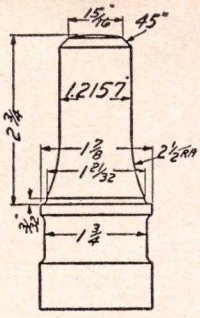
RIVET SETS

For Long Stroke Riveting Hammer Nos.

43, 50-S, 53, 60, 63, 80, 83, 83-H, 83-X, 90, 90-S, 93, 93-H

(Tools Shown on Page 51)

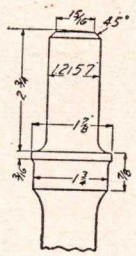




Parker Taper Shank

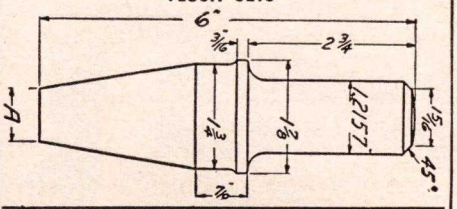
All cuppings listed on this page are available either in standard shanks (upper left drawing) or in Parker Taper shanks (upper right drawing). To select rivet set desired, determine size of riveting hammer and type of shank. Refer to style of cupping needed and find in tables below the symbol number of the rivet set to order for shank style required, in accordance with rivet diameter. For diameters of rivet set and cupping, see table on page 52.

Rivet Diameter	Button Head Cupping		Cone Head Cupping		Steeple Head Cupping		Pan Head Cupping		Liverpool Head Cupping		Auto Set—Button Head Cupping	
	Standard Shank Symbol	Parker Shank Symbol	Standard Shank Symbol	Parker Shank Symbol	Standard Shank Symbol	Parker Shank Symbol	Standard Shank Symbol	Parker Shank Symbol	Standard Shank Symbol	Parker Shank Symbol	Standard Shank Symbol	Parker Shank Symbol
5/16"	2094	2114	2134	2150	2166	2182	....	....	....	....	2258	2264
3/8"	2095	2115	2135	2151	2167	2183	2198	2213	2228	2243	2259	2265
7/16"	2096	2116	2136	2152	2168	2184	2199	2214	2229	2244	2260	2266
1/2"	2097	2117	2137	2153	2169	2185	2200	2215	2230	2245	2261	2267
9/16"	2098	2118	2138	2154	2170	2186	2201	2216	2231	2246	2262	2268
5/8"	2099	2119	2139	2155	2171	2187	2202	2217	2232	2247	2263	2269
11/16"	2100	2120	2140	2156	2172	2188	2203	2218	2233	2248		
3/4"	2101	2121	2141	2157	2173	2189	2204	2219	2234	2249		
13/16"	2102	2122	2142	2158	2174	2190	2205	2220	2235	2250		
7/8"	2103	2123	2143	2159	2175	2191	2206	2221	2236	2251		
15/16"	2104	2124	2144	2160	2176	2192	2207	2222	2237	2252		
1"	2105	2125	2145	2161	2177	2193	2208	2223	2238	2253		
1 1/16"	2106	2126	2146	2162	2178	2194	2209	2224	2239	2254		
1 1/8"	2107	2127	2147	2163	2179	2195	2210	2225	2240	2255		
1 3/16"	2108	2128	2148	2164	2180	2196	2211	2226	2241	2256		
1 1/4"	2109	2129	2149	2165	2181	2197	2212	2227	2242	2257		
1 5/16"	2110	2130	....	....	....	....	....	....	....	....		
1 3/8"	2111	2131	....	....	....	....	....	....	....	....		
1 1/16"	2112	2132	....	....	....	....	....	....	....	....		
1 1/2"	2113	2133	....	....	....	....	....	....	....	....		



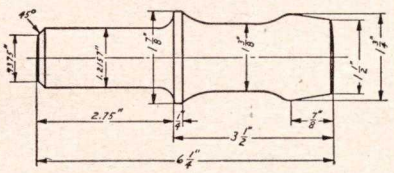
Upper View of Set

FLUSH SETS



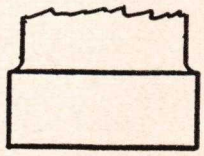
Face Diameter	Standard Shank Symbol	Parker Shank Symbol
3/4"	2270	2279
7/8"	2271	2280
1"	2272	2281
1 1/8"	2273	2282
1 1/4"	2274	2283
1 3/8"	2275	2284
1 1/2"	2276	2285
1 5/8"	2277	2286
1 3/4"	2278	2287

SPOOL TYPE FLUSH SETS



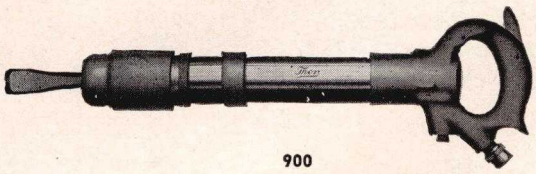
Face Diameter	Standard Shank Symbol	Parker Shank Symbol
1 1/4"	2288	2291
1 3/8"	2289	2292
1 1/2"	2290	2293

BLANK SETS

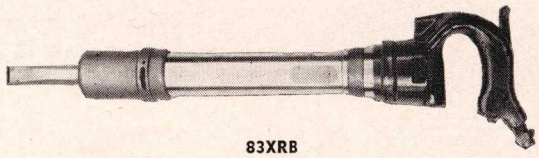


Type	Face Diameter	Standard Shank Symbol	Parker Shank Symbol
Soft	2"	2294	2298
Soft	2 1/2"	2295	2299
Hard	2"	2296	2300
Hard	2 1/2"	2297	2301

RIVET BUSTERS



900



83XRB

Size	Bore	Stroke	Length Overall	Weight Pounds	Code Word
900	1 1/8"	9"	22 1/4"	27 3/8	BUSTO
83XRB	1 3/16"	8"	24 3/4"	28 3/4	BUSTI

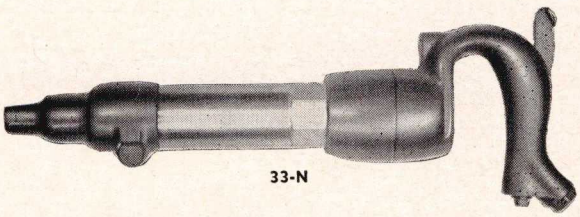
For maximum speed and power, use 3/4" air hose for sizes 900 and 83XRB.

EQUIPMENT

Size	Standard Equipment	Optional Equipment
900	Heavy Duty Hex Type Retainer. One Chisel or Knock-Out Punch. Closed Handle with Outside Trigger.	SUPER-HEX Extra Heavy Duty Type, Duplex or Keyed Type Chisel Retainer with one Chisel or Knock-Out Punch. Closed Handle with Inside Trigger.
83XRB	Extra Heavy Duty Retainer. One THOR SUPER-HEX Chisel or Knock-Out Punch, "L" Type Open Handle with Outside Trigger.	Closed Handle, "A" Type with Outside Trigger or "B" Type with Inside Trigger.

For Chisels, see page 56.

NAIL DRIVER



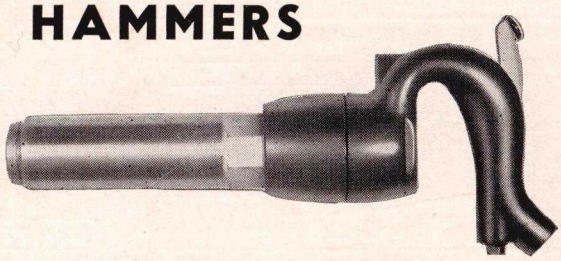
33-N

Size	Capacity	Bore	Stroke	Length Overall	Weight Pounds	I.D. of Retainer Nose
33-N	Up to 3/8" Dia. x 12" Long Spikes	1 1/8"	3"	19 1/4"	15 1/2	13/16"

33-N is equipped with "L" type open handle and Nail Driving head as standard. No. 61184 Reducer, 3/8" male, 1/4" female pipe thread, if specified.

LIGHT RIVETING HAMMERS

Size	Bore	Stroke	Capacity Rivets	Length Overall	Weight Pounds
11-R	1 1/8"	1"	1/4"	12 5/8"	12 1/8
22-R	1 1/8"	2"	5/16"	14 1/8"	13 1/8
33-R	1 1/8"	3"	1/2"	15 1/2"	14 1/4



EQUIPMENT

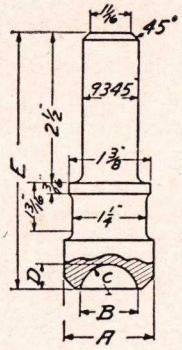
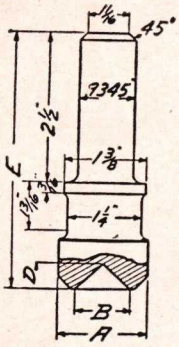
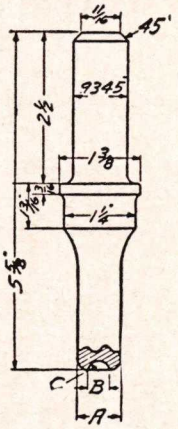
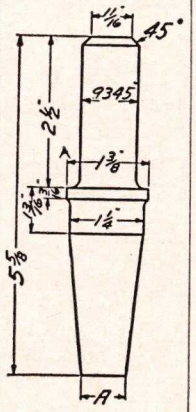
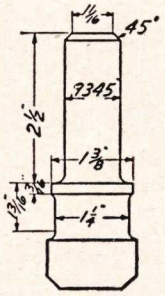
Standard Equipment	Optional Equipment
"L" Type Open Handle. 15/16" Nozzle.	"B" Closed Handle, Inside Trigger. No. 61184 Reducer, 3/8" male, 1/4" female pipe thread, if specified.

Rivet Set Clips for all above hammers are extra equipment, furnished at additional charge.

See Page 55 for Rivet Sets.

RIVET SETS FOR LIGHT RIVETING HAMMERS

Nos. 10, 10-F, 11-R, 22-R, 33-R, 20, 20-F, 30, RC-30

Rivet Diameter	Button Head Cupping  Symbol	Cone Head Cupping  Symbol	Auto Set—Button Head Cupping  Symbol	Face Diameter	Flush Sets  Symbol	Blank Sets  Type	Symbol
3/16"	2308	2316	2324	3/4"	2330		
1/4"	2309	2317	2325	7/8"	2331		
5/16"	2310	2318	2326	1"	2332		
3/8"	2311	2319	2327	1 1/8"	2333		
7/16"	2312	2320	2328				
1/2"	2313	2321	2329				
9/16"	2314	2322		1 3/8"		Soft	2334
5/8"	2315	2323		1 3/8"		Hard	2335

All rivet sets listed above are furnished only with standard shanks shown in each drawing. When ordering, specify symbol number.

DIMENSION CODE

A—Diameter of rivet set head.

B—Diameter of cupping.

C—Radius of cupping (Button and Liverpool head and Auto Set).
Bottom diameter of cupping (Pan Head).

D—Depth of cupping.

E—Overall length.

RIVET SET DIMENSIONS

Type of Cupping		Diameter of Rivet							
		3/16	1/4	5/16	3/8	7/16	1/2	9/16	5/8
BUTTON HEAD	A	1 1/4	1 1/4	1 1/4	1 1/4	1 3/8	1 3/8	1 3/8	1 1/2
	B	5/16	3/8	1/2	19/32	11/16	25/32	7/8	1
	C	5/32	3/16	1/4	5/16	23/64	13/32	29/64	33/64
	D	1/8	5/32	13/64	15/64	9/32	5/16	11/32	13/32
	E	4	4	4	4	4	4	4	4
CONE HEAD	A	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 3/8	1 3/8	1 1/2
	B	5/16	7/16	35/64	41/64	3/4	55/64	31/32	1 3/32
	D	9/64	3/16	15/64	9/32	21/64	3/8	27/64	15/32
	E	4	4	4	4	4	4	4	4
FLUSH	A		3/4		7/8		1		1 1/8
	E		5 5/8		5 5/8		5 5/8		5 5/8
AUTO	A	3/4	3/4	7/8	1	1 1/8	1 1/8		
	B	5/16	3/8	1/2	19/32	11/16	25/32		
	C	5/32	3/16	1/4	5/16	23/64	13/32		
	D	1/8	5/32	13/64	15/64	9/32	5/16		
	E	5 5/8	5 5/8	5 5/8	5 5/8	5 5/8	5 5/8	5 5/8	5 5/8

CHISELS, KNOCK-OUT PUNCHES

For Rivet Busters and Core Busters

FOR Nos. 500 and 900 RIVET BUSTERS

(No. 900 on page 54)

DUPLEX TYPE

Rivet Busting Chisel
No. 2525; Length, 9¼″
(Furnished in greater lengths, if specified.)

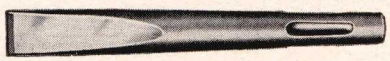
Shearing Chisel
No. 2526; Length, 9″
(Furnished in greater lengths, if specified.)

Ripping Chisel
No. 2527; Length, 8⅞″
(3/16″ or ¼″ ripping edge, as specified.)

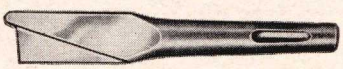
Knock-Out Punch
No. 2528; Length, 8⅝″
(Standard diameters, 7/16″, 9/16″, 11/16″ and 13/16″.)

KEYED TYPE

Rivet Busting Chisel
No. 2529; Length, 9″
(Furnished in greater lengths, if specified.)



Shearing Chisel
No. 2530; Length, 8¾″
(Furnished in greater lengths, if specified.)



Ripping Chisel
No. 2531; Length, 8½″
(3/16″ or ¼″ ripping edge, as specified.)

Knock-Out Punch
No. 2532; Length, 7½″
(Standard diameters, 7/16″, 9/16″, 11/16″ and 13/16″.)

SUPER-HEX ACCESSORIES FOR Nos. 900 AND 83XRB RIVET BUSTERS

(Tools on Page 54)

Cutting Chisel
No. 72992; Length, 10¼″

(Note: accessories listed below are not illustrated.)

Shearing Chisel
No. 72993; Length, 10″

Ripping Chisel
No. 72994; Length, 9⅞″
(3/16″ or ¼″ ripping edge, as specified.)

Knock-Out Punch
No. 72995; Length, 9⅝″
(Standard diameters, 9/16″, 5/8″, 11/16″, ¾″, 13/16″ and ⅞″.)

Moil Point Chisels
No. 73014; Length, 12″
No. 73015; Length, 15″
No. 73016; Length, 18″

HEAVY DUTY HEX ACCESSORIES FOR No. 900 RIVET BUSTER

(Tool on Page 54)

Cutting Chisel
No. 74940; Length, 9¼″

Shearing Chisel
No. 74979; Length, 9″

Ripping Chisel
Length, 8⅞″
No. 74980; ¼″ ripping edge
No. 74981; 3/16″ ripping edge

Knock-Out Punch
No. 74978; Length, 8⅝″
(Standard diameters: 7/16″, 9/16″, 11/16″, and 13/16″)

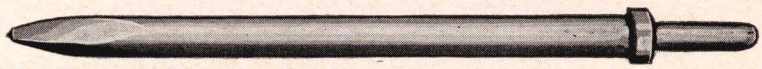
Mail Point Chisels
No. 74982
(Lengths: 12″, 15″ or 18″, as specified)

PEG POINT CHISELS

FOR No. 413 CORE BUSTER

(Tool on page 37)

No. 2563; Length, 18″; standard square shank.



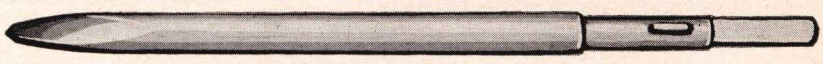
No. 2564; Length, 18″; standard hexagon shank.

FOR No. 433 CORE BUSTER

No. 64305; Length, 15″
No. 65350; Length, 18″
No. 65351; Length, 24″

(All three sizes furnished with combination round and hexagon shank.)

FOR No. 3C CORE BUSTER

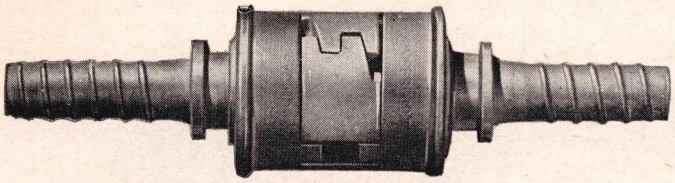


No. 2516; Length, 18″; standard round shank.

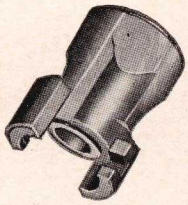
No. 2518; Length, 18″; standard hexagon shank.

For information on rivet busting chisel, ripping chisel, knock-out punch, see Thor Accessories Catalog No. 72.

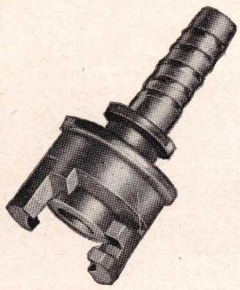
HOSE COUPLINGS



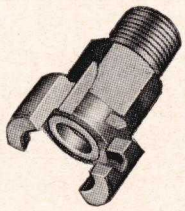
Thor couplings are interchangeable between all sizes and combinations. Each hose end is identical with the other—no right or left—no male or female—making a universal coupling.



Female Pipe End

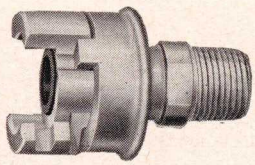


Hose End



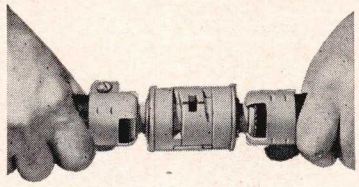
Male Pipe End

No. 72569 Coupling with 1/2" Male Pipe Thread and Locking Sleeve offers the same double-lock feature in connecting hose to pipe, as in connecting hose to hose. Standard Pipe reducers are used in making connections between the 1/2" male pipe thread of the coupling and pipe size larger than 1/2".

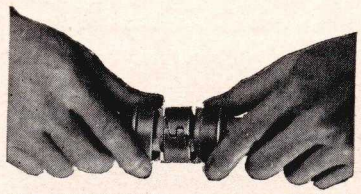


No. 72569 Pipe End (Male with lock sleeve)

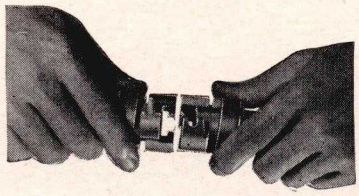
SAFE, UNBREAKABLE POSITIVE CONNECTION



TO CONNECT, place ends together, push and twist—they're locked.



TO DISCONNECT, simply pull back sleeves . .



jaws open automatically.

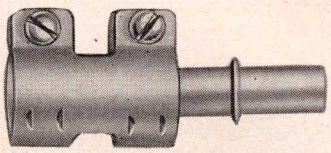
INTERCHANGEABLE HOSE COUPLINGS

Symbol	Size	Style	Symbol	Size	Style	Symbol	Size	Style
2070	3/8"	Hose End	2073	3/8"	Pipe End, Male	2077	3/8"	Pipe End, Female
2071	1/2"	Hose End	2074	1/2"	Pipe End, Male	2078	1/2"	Pipe End, Female
2072	3/4"	Hose End	2075	3/4"	Pipe End, Male	2079	3/4"	Pipe End, Female
			2076	1"	Pipe End, Male	2080	1"	Pipe End, Female
			72569	1/2"	Pipe End, Male			

No. 2081 Gasket fits all above couplings.

HOSE CLAMPS

Symbol	Hose Sizes Clamp Will Fit			
	Outside Diameter		Inside Diameter	
	Min.	Max.	Wrapped Hose	2 Braid Hose
2085	3/4"	7/8"	3/8"	
2086	1"	1 1/8"	1/2"	
2087	1 1/8"	1 1/4"	3/4"	1/2"
2087 oversize	1 1/4"	1 3/8"		3/4"



*HOSE MENDER CLAMPS

Symbol	Hose Size (Inside Diameter)	
	Wrapped Hose	2 Braid Hose
2082	3/8"	
2083	1/2"	
2084	3/4"	1/2"

*Including Tube, Mender Clamp, Screws and Nuts

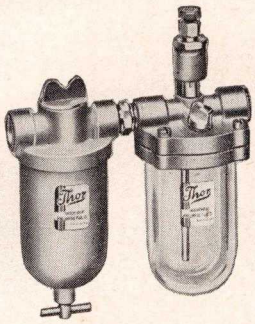
PNEUMATIC HOSE

Size	Type	Style	
		Wrapped	Braided
1/4"	Standard	3 ply	
5/16"	Standard	3 ply	
3/8"	Standard	3 ply	
1/2"	Standard		2 braid
3/4"	Standard		2 braid
1/2"	Heavy		2 braid
3/4"	Heavy		2 braid
1"	Heavy		2 braid

1/2". 3/4" and 1" hose should be ordered only in 25 or 50 ft. lengths

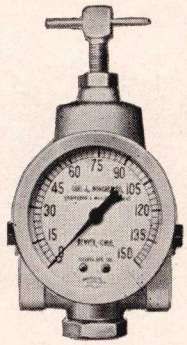
AIR LINE LUBRICATING EQUIPMENT

Lubricator



Lubricator-Filter Combination Unit

Filter



Air Regulator (with Gauge)

LUBRICATORS

Size No.	Pipe Thread	Bowl Capacity	Shipping Wt., Lbs.
20310	1/4" Female	1/2 Pint	2
20311	3/8" Female	1/2 Pint	2
72136	1/2" Female	1/3 Quart	3
72137	3/4" Female	1/3 Quart	4
72138	1" Female	1/3 Quart	4

FILTERS

Size No.		Female Pipe Thread	Bowl Capacity	Shipping Wt., Lbs.
Steel Bowl	Plastic Bowl			
20312		1/4"	1/2 Pint	3
	21791	1/4"	1/3 Quart	3
20313		3/8"	1/2 Pint	3
	21792	3/8"	1/3 Quart	3
72141		1/2"	1/3 Quart	3
	21793	1/2"	1/3 Quart	3
72142		3/4"	5/8 Quart	6
72143		1"	5/8 Quart	9

Note: Standard direction of flow of air is left to right. If right to left flow is desired, so specify.

LUBRICATOR-FILTER COMBINATION UNITS

Size No.		Combination of			Female Pipe Thread	Lubricator Bowl Capacity	Shipping Wt., Lbs.
Filter Bowl of Steel	Plastic	Filter No.	Lubricator No.	Bushing No.			
20314		20312	20310	72167	1/4"	1/2 Pint	4
	21794	21791	20310	72167	1/4"	1/2 Pint	4
20315		20313	20311	72168	3/8"	1/2 Pint	5
	21795	21792	20311	72168	3/8"	1/2 Pint	5
72146		72141	72136	72169	1/2"	1/3 Quart	5 1/2
	21796	21793	72136	72169	1/2"	1/3 Quart	5 1/2
72147		72142	72137	72170	3/4"	1/3 Quart	9
72148		72143	72138	72171	1"	1/3 Quart	12

Note: Standard direction of flow of air is left to right. If right to left flow is desired, so specify.

AIR REGULATOR AND REDUCING VALVES

Without Gauge			With Gauge		
Size No.	Pipe Thread	Shipping Wt., Lbs.	Size No.	Pipe Thread	Shipping Wt., Lbs.
72154	1/4" Female	4	72159	1/4" Female	5
72155	3/8" Female	4	72160	3/8" Female	5
72156	1/2" Female	5	72161	1/2" Female	6
72157	3/4" Female	10	72162	3/4" Female	11
72158	1" Female	10	72163	1" Female	11

Note: Standard direction of flow of air is left to right. If right to left flow is desired, so specify.

STREAMLINE WYES

Size No.	Pipe Thread Male and Female
72149	1/4"
72150	3/8"
72151	1/2"
72152	3/4"
72153	1"

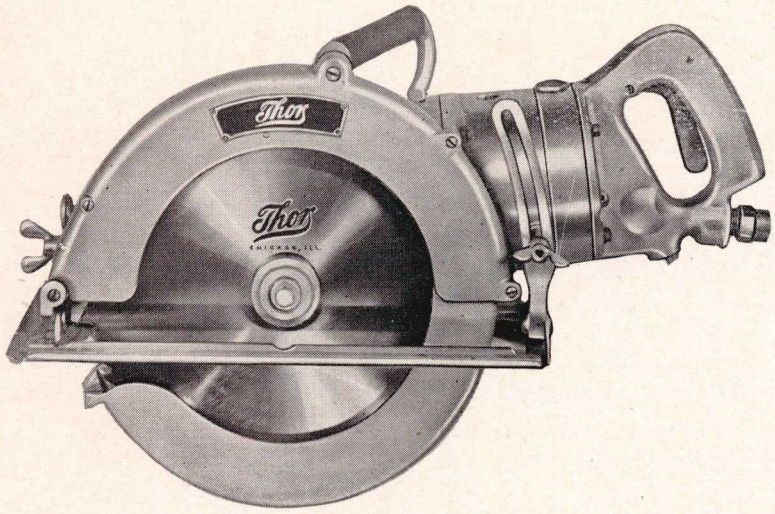
BLOW GUNS

Size No.	Female Pipe Thread
*72164	1/4"
*72165	3/8"
**72166	1/4"
*Lever Handle	
**Button Type	

THOR Air Regulators of 1/4", 3/8" and 1/2" pipe size are equipped with full range compound springs providing secondary pressures from 20 to 125 pounds. 3/4" and 1" Regulators are furnished with springs for secondary pressures of 20 to 90 pounds and 60 to 125 pounds. All Regulators are suitable for 250 pounds primary pressure. In ordering, specify primary pressure (minimum and maximum) and secondary pressure (minimum and maximum).

PNEUMATIC SAW

Heavy Duty — 12 Inch Blade



The new THOR Pneumatic Saw No. PS-12 has been especially designed for use in mines, and by contractors for bridge building, dams, dry docks, waterway super structures—in fact, wherever heavy timber is used. The No. PS-12 will rip and cross cut timbers up to 4" full; and bevel cut 3-5/16" lumber at 45°

The latest rotary type motor is built into the THOR Pneumatic Circular Saw. It is a self-contained unit connected to the worm shaft by a star connector. This flexible connection dissipates shock resulting from load vibrations.

THE ROTOR is of one piece construction, hardened and ground. This insures perfect balance due to absence of keys or splines, and provides for deeper rotor slots and wider blades, resulting in greater power and longer blade life. Live air is directed below the rotor blades to provide instant starting.

SAFETY THROTTLE. The throttle valve of the poppet type is leakproof and instantly cuts off air when it is closed. The throttle has a positive safety lock which prevents accidental starting of the saw either while being carried or laying on the ground.

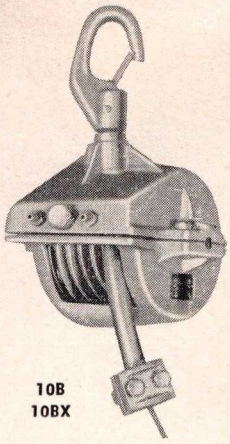
SAFETY GUARD. An automatic telescopic guard, mounted on ball bearings, shields the saw blade when it is not cutting. A blower keeps the line of cut clear of sawdust.

SPECIFICATIONS

Size	Blade Diam.	Cap. of Cut, Max. in Wood	RPM	Base Adjustment	Length Overall	Weight Lbs.	Code Word
PS-12	12"	4 3/8"	1200	2 3/8" to 4 3/8"*	22"	30	ARSKA

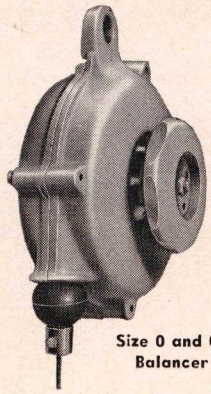
*Vertically for depth of cut. Also tilts for bevel cuts; at 45 degrees cuts through lumber 3 5/16" thick.
Equipped with 12" combination cross-cut and rip blade.

SAFETY BALANCERS

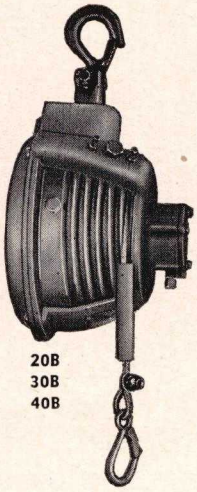


10B
10BX

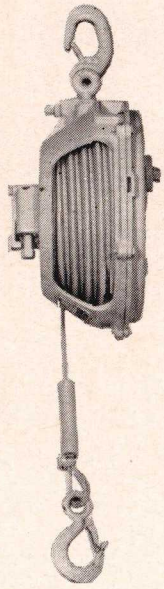
Size	Capacity Pounds Max.	Capacity Pounds Min.	Range of Travel, Feet	Distance Hook to Hook As Shipped with Std. Lgth. Cable	Distance Hook to Hook Min. Obtainable by Shortening Cable	Weight Pounds	Code Word
0	8	0	5	19″	13″	13½	PESAY
0X	10	3	5	19″	13″	13½	PESAZ
10B	10	5	5	35″	16″	16¾	PESAB
10BX	20	10	5	35″	16″	16¾	
20B	20	10	6	54″	17½″	47¾	PESAC
30B	30	20	6	54″	17½″	47¾	PESAD
40B	40	30	6	54″	17½″	47¾	PESAF
50B	50	35	6	54″	20″	52	PESAG
60B	60	45	6	54″	20″	52	PESAH
75B	75	60	6	54″	20″	52	PESAK
All above sizes have ONE spring.							
75DB	75	60	6	54″	20″	72	PESAL
85B	85	70	6	54″	20″	72	PESAM
100B	100	85	6	54″	20″	72	PESAP
120B	120	100	6	54″	20″	73	PESAR
130B	130	115	6	54″	20″	73	PESAS
140B	140	125	6	54″	20″	73	PESAT
150B	150	135	6	54″	20″	75	PESAV
175B	175	165	4	54″	20″	75	PESAW
200B	200	180	4	54″	20″	75	PESAX



Size 0 and 0X Balancer



20B
30B
40B



50B
60B
75B

All above sizes have TWO springs.
When ordering balancers, specify exact and complete weight and travel of object to be suspended and describe operation briefly. Balancers in tandem, for suspending loads in excess of 200 pounds, are also available.

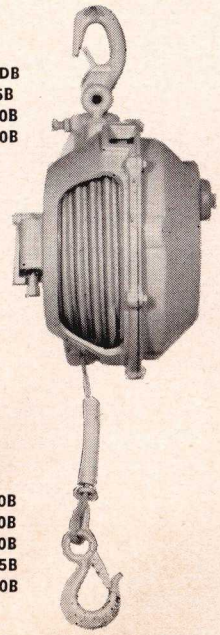
TOP POSITION LOCK TYPE

TOP POSITION LOCK

A special arrangement locks the balancer in top position. By this means a load may be suspended at the desired point of the cable travel and when required it may be raised to the very top position, at which point it locks automatically so that complete clearance is provided below. When the load is wanted at suspended working position again it is released by a quick jerk to start it downward.

Size	Capacity Pounds Max.	Capacity Pounds Min.	Range of Travel, Feet	Distance Hook to Hook As Shipped with Std. Length Cable	Distance Hook to Hook Min. Obtainable by Shortening Cable	Weight Pounds	Code Word
TL-50B	50	35	6	54″	20″	52	PETAJ
TL-60B	60	45	6	54″	20″	52	PETAK
TL-60DB	60	45	6	54″	20″	72	PETAL
TL-75B	75	60	6	54″	20″	52	PETAM
TL-75DB	75	60	6	54″	20″	72	PETAP
TL-85B	85	70	6	54″	20″	72	PETAR
TL-100B	100	85	6	54″	20″	72	PETAS
TL-120B	120	100	6	54″	20″	73	PETAT
TL-130B	130	115	6	54″	20″	73	PETAV
TL-140B	140	125	6	54″	20″	73	PETAW
TL-150B	150	135	6	54″	20″	75	PETAX
TL-175B	175	165	4	54″	20″	75	PETAY
TL-200B	200	180	4	54″	20″	75	PETAZ

Nos. TL-50B, 60B, and 75B have ONE spring. Nos. TL-60DB, 75DB, 85B, 100B, 120B, 130B, 140B, 150B, 175B, and 200B have TWO springs.

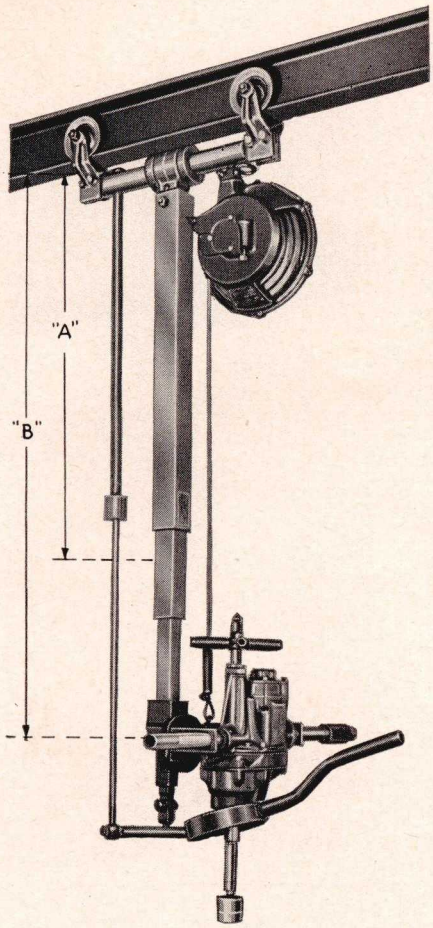


75DB
85B
100B
120B

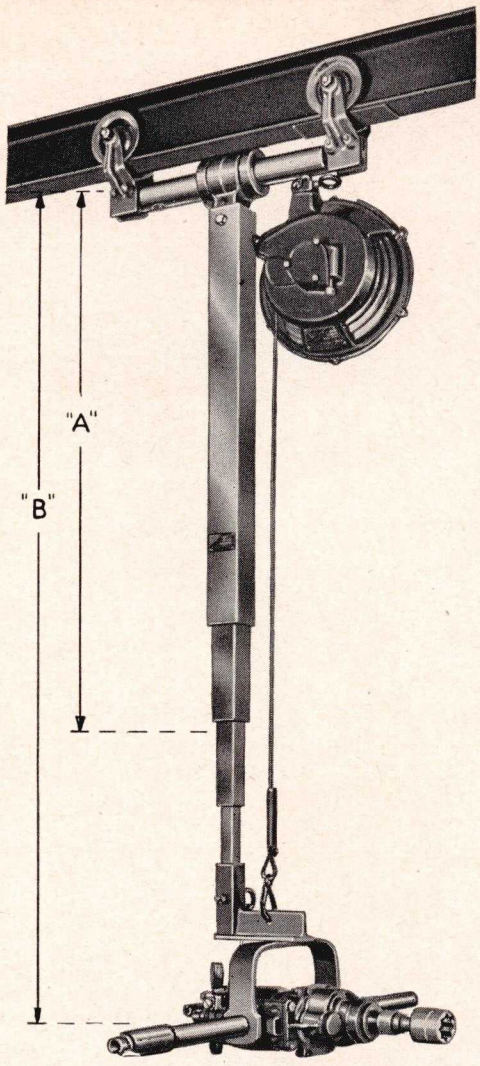
130B
140B
150B
175B
200B

TORQUE BALANCERS

Lever Type



LTB-3
LTB-4
LTB-6



TA-3
TA-4
TA-6

LEVER TORQUE BALANCER SPECIFICATIONS

Size	Feed Travel	"A" Distance from Bottom of Rail to Top Limit Across Bracket Center with Feed Lever		"B" Distance from Bottom of Rail to Lowest Limit Across Bracket Center with Feed Lever		Weight Pounds Less Balancer	Code Word	"C" Approximate Distance Across Bracket Center to End of Spindle			
		Up	Down	Up	Down			362	363	264	375 385
LTB-3	4 1/2"	23 1/2"	28"	38"	42 1/2"	81	PEVAB				
LTB-4	4 1/2"	29 1/2"	34"	50"	54 1/2"	86	PEVAC	5"	6"	8"	7"
LTB-6	4 1/2"	35 1/2"	40"	62"	66 1/2"	91	PEVAD				

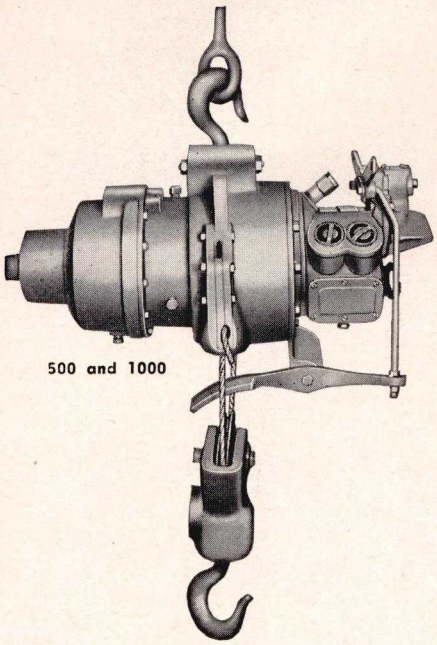
NOTE: 40 to 120 pounds capacity. Used with THOR Safety Balancers. Longer travel can be furnished for special applications, if necessary.

TORQUE BALANCER SPECIFICATIONS

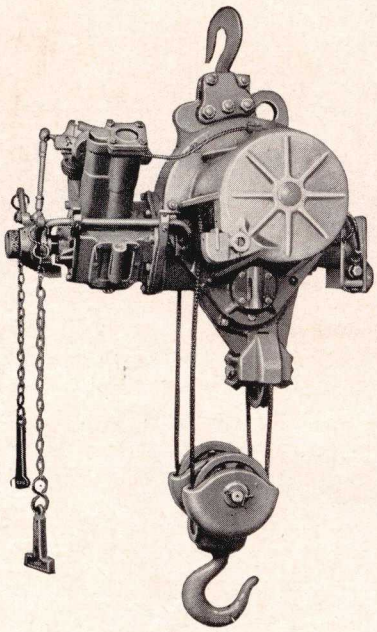
Size	Range of Travel	"A" Distance from Bottom of Rail to Yoke Connection at Top Position	"B" Distance from Bottom of Rail to Yoke Connection at Lowest Position	Weight Pounds Less Balancer	Code Word
*TA-3	3 Ft.	2 Ft. 7 In.	5 Ft. 7 In.	70	PETAB
*TA-4	4 1/2 Ft.	3 Ft. 1 In.	7 Ft. 7 In.	71	PETAC
*TA-6	6 Ft.	3 Ft. 7 In.	9 Ft. 7 In.	73	PETAD

NOTE: 40 to 120 pounds capacity. Used with THOR Top Position Lock Type Balancers.

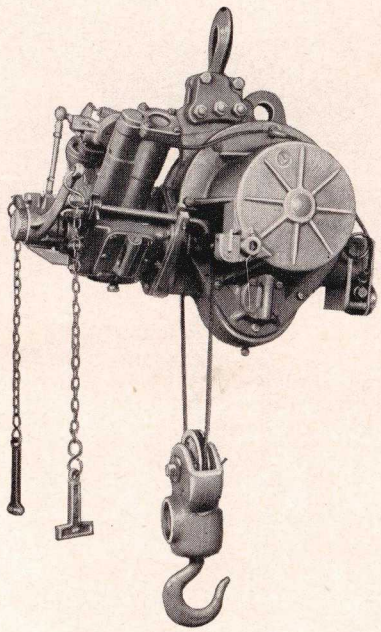
MOTOR HOISTS



500 and 1000



1020
1040
2015
2020
2030
2040
3015



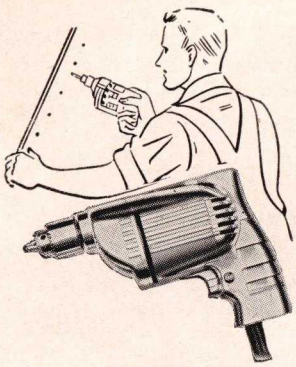
4015
6015

Size	Capacity Tons	Lift Feet	Speed Feet Per Minute		Weight of Hoist Lbs.	Distance Between Hooks	Code Word		
			No Load	With Load			With Hook	With Trolley	With Rigid Trolley
500	1/4	*20	220	80	200	31"	BINUF	TINUF	RIGIC
1000	1/2	*20	75	40	205	31"	BINUE	TINUE	RIGID
1020	1/2	20	75	35	242	36"	BINNA	TINNA	RIGIF
1040	1/2	40	75	35	285	36"	BISON	TISON	RIGIG
2015	1	15	50	20	248	36"	BITUB	TITUB	RIGIK
2020	1	20	50	20	248	36"	BISOL	TISOL	
2030	1	30	50	20	295	36"	BITUC	TITUC	RIGIL
2040	1	40	50	20	295	36"	BITER	TITER	
3015	1 1/2	15	33	14	252	36"	BITUD	TITUD	RIGIM
4015	2	15	25	11	302	40"	BITUG	TITUG	RIGIP
6015	3	15	17	7	312	40"	BITUK	TITUK	RIGIR

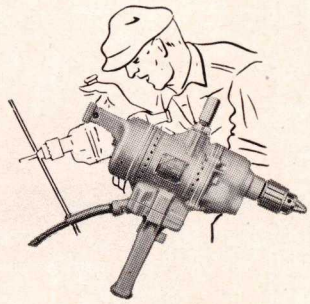
* 10 feet additional lift on Sizes 500 and 1000 Hoists can be ordered at extra charge.
Sizes 500, 1000, 1020, 1040, 2020, 2040 have 1/4" diameter cable.
Sizes 2015, 2030, 3015, 4015, 6015 have 5/16" diameter cable.
Hoists can be furnished for trolley mounting, and with trolley. Specify size of I-beam used.

THOR UNIVERSAL ELECTRIC TOOLS

For Complete Details, Specifications, and Prices Send for Catalog No. 38A

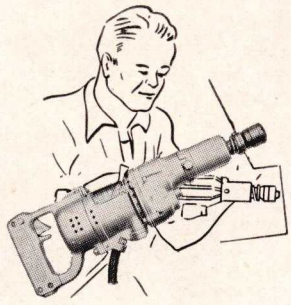


SMALL CAPACITY DRILLS
of the "midget" type for one-hand operation were introduced by Thor. Today, Thor offers double the widest range of models available anywhere.

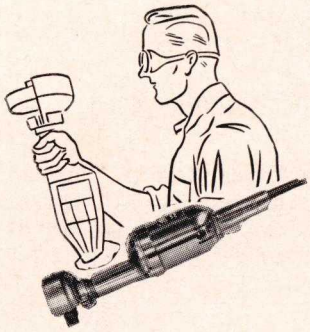


LARGE CAPACITY DRILLS
substantially reduced in weight and bulk without sacrifice of power are available in the Thor line in capacities up to one and one-quarter inch.

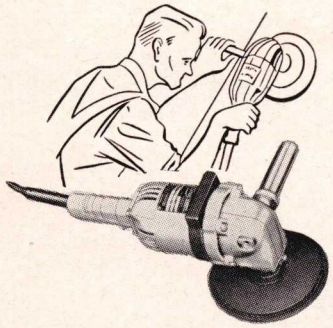
SCREW DRIVERS
with capacities up to No. 20 screws make the Thor line the most complete ever offered; more than 300 attachments expand their use still further.



NUT SETTERS
with capacities up to one-half inch nut are available for light and heavy duty service in setting nuts, bolts and lag screws on production or maintenance.

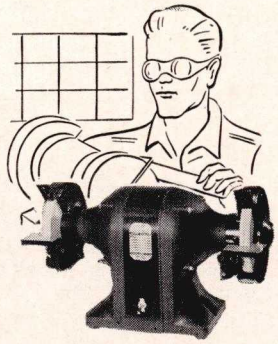


PORTABLE ELECTRIC GRINDERS
truly practical for production operation were first developed by Thor with the perfection of the "Shock Absorber" Spindle that absorbs vibration.



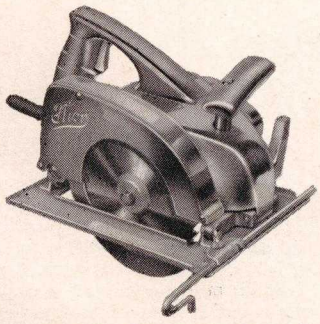
PORTABLE ELECTRIC SANDERS
in 7-inch and 9-inch diameter disc capacities for both light and heavy duty service combine smooth operation with easy handling for top performance.

PORTABLE ELECTRIC POLISHERS
for both light and heavy duty service on all types of cleaning, buffing and polishing of metal surfaces are built to withstand the most severe usage.



ELECTRIC BENCH GRINDERS
in 6-inch, 7-inch, 8-inch, and 10-inch diameter wheel capacities for light and heavy duty service are available in eight models to handle a wide variety of applications.

PORTABLE ELECTRIC HAMMERS
with a unique improvement in design, the exclusive Thor "Sling-Shot Drive," have unequalled power and stamina for heavy duty work.



PORTABLE ELECTRIC SAWS
in six different models with capacities from 6-in. to 12-in. blades provide a saw for every application in construction and maintenance.

PORTABLE ELECTRIC NIBBLERS
for cutting sheet metal and tubing to do everything a conventional portable power shear will do—more besides—and do it easier, better and faster.

NEW

IMPACT WRENCHES
Completely new, powerful 3/8" and 5/8" all-purpose electric tools for scores of applications. Combine Thor electric motor and pneumatic wrench design for unusual power.

PORTABLE AIR TOOLS
FOR MINING AND CONSTRUCTION

There is a Thor Portable Air Tool for use on every type of mining and construction project. Each model has been designed and built by men with actual on-the-job experience. And each model has proved its mettle by prolonged testing on the job. A wide range of sizes and capacities gives you precisely the right Thor tool for your own particular needs. For detailed information on any of the tools shown here, write for Thor Catalog No. 42-A.

Paving Breakers

No. 17. Paving Breaker
Light Duty

A light duty machine designed for general light demolition. Sturdy, four-bolt backhead. Equipped with Thor short travel tubular valve. New latch type retainer. Convertible to pneumatic pick or digger.

Nos. 23, 24, 25. Paving Breakers
Medium, Heavy Weights

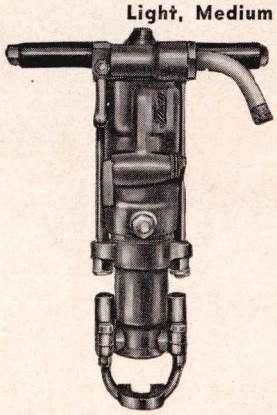
Powerful, yet easy to handle machines of medium and heavy weights designed for general and heavy duty demolition, wall opening. Block type piston hammer of new design adds power. Cool rubber grips. New latch type retainer.

Spike Drivers

The Nos. 23 and 25 Thor Paving Breakers can be furnished with special front heads for fast, powerful driving of spikes up to 12" long.

Sinker Rock Drills

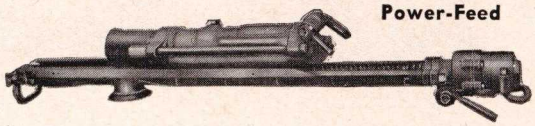
Light, Medium and Heavy Weights



Six sizes of sturdy, powerful-hitting drills — from the 30 lb. No. 28 to the No. 85B heavy weight — for all types of deep-hole drilling, shaft-sinking, quarrying and scores of other jobs in all rock formation. Wet or dry operation. Easily mounted for use as drifters.

Drifter Rock Drills

Power-Feed



Light, Medium and Heavy Weights

Powerful and fast drilling machines, light, medium and heavy weights, recommended for tunnel and drift work and general drilling. Wet operation. Hand feed or Thor POWER-Feed, which speeds up entire drilling cycle.

Stoper Rock Drills

General Purpose

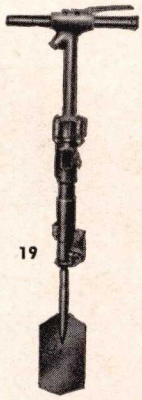
Light, medium and heavy weights, automatically rotated machines used extensively for raising and ring drilling in soft and medium hard formations, and for all heavy stoping. Thor simplified design permitting quick change of water tubes. Wet operation only.

412

Clay and Trench Diggers

Nos. 412, 412T Diggers
Light Weight

Light weight diggers designed for overhead and sidewall work. Powerful, fast and capable of standing rough usage. Closed handle and inside trigger, or extended "T" handle.



19

Nos. 18, 19 Diggers
Heavy Duty

Heavy duty diggers for digging gravel, clay and hard pan. Closed handle, inside trigger, or extended "T" handle. New latch type retainer.

Sump Pumps

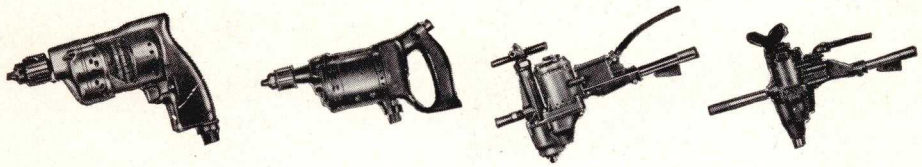
Designed to work efficiently under the most unfavorable conditions, Thor Sump Pumps will operate whether fully or partially submerged in dirty water, oil, sludge or sewage. Self-priming, centrifugal impeller type pumps, rotary air motor is housed in air tight housing. New design exhaust outlet eliminates, or in damp climates minimizes, shutdowns due to freezing.

For Complete Information and Specifications, Send for Catalog No. 42-A

HIGH FREQUENCY ELECTRIC TOOLS

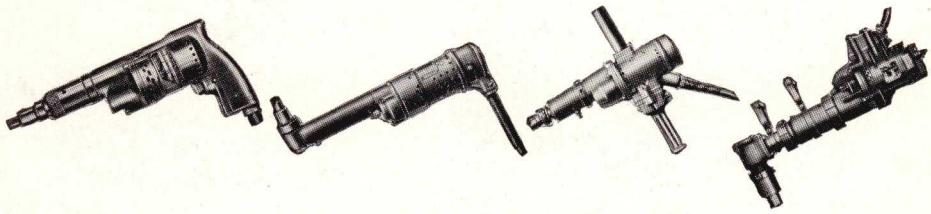
In the complete THOR line of High Frequency portable electric tools, more than 200 models are available in a wide range of kinds, sizes, speeds and capacities for every industrial requirement. For complete information and specifications send for Catalog No. 61.

Drills
Reamers



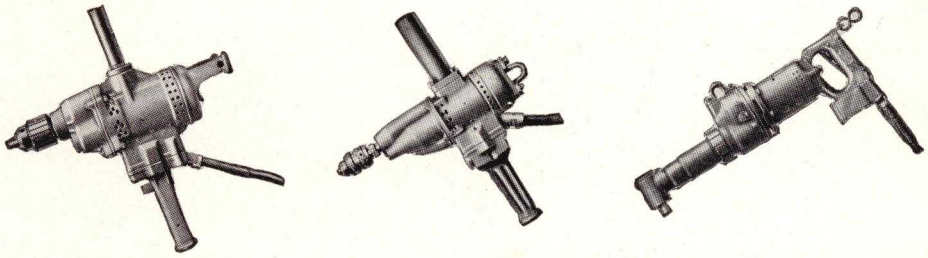
A complete range of machines with drilling capacities up to 1¾" diameter holes; reaming capacities up to 15/16" diameter holes.

Screw Drivers
Nut Setters



Both straight and angle type machines for setting all kinds and sizes of screws up to No. 20; nuts up to 1½" Bolt Size. Positive and Adjustable Clutches for driving to exact predetermined tensions are available for all machines.

Tappers
Stud Setters

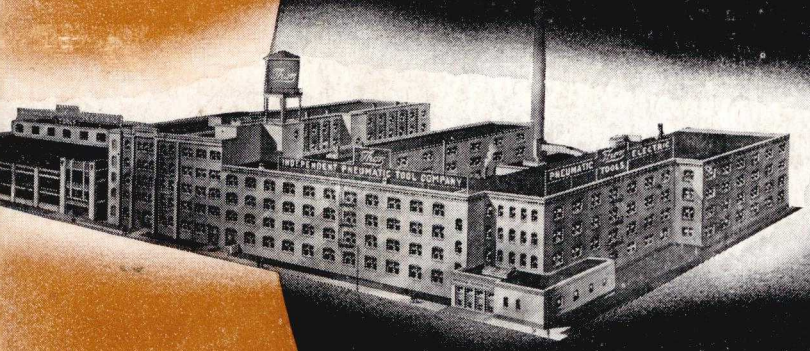


Machines for tapping and stud setting are available in a number of speeds for both forward and reverse operation.

Grinders
Sanders
Polishers
Buffers

Straight and right angle grinders are available with capacities up to 8" diameter grinding wheels. Sanders, Polishers and Buffers to take abrasive discs and polishing pads up to 9" diameter are available at various speeds to provide a tool for every operating condition.

Thor



AURORA PLANT

PORTABLE POWER TOOLS

- • • PNEUMATIC
- • • UNIVERSAL ELECTRIC
- • • MINING and CONTRACTORS
- • • HIGH FREQUENCY ELECTRIC

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TOOL MAKERS SINCE
1893

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